

CRICKET **BY TREVOR BAILEY**

England should reach final

BY JUSTINIAN

commit the defaulter to prison forthwith. It can declare that the defaulter's recognisance be forfeited, but even then cannot commit him to prison without holding an inquiry into his means and without considering other means of enforcing the monetary penalty.

In these circumstances the Law Commission, realising that the system of personal recognisance is for all practical circumstances unenforceable or largely ineffective, proposes to create a new crime of failing to answer bail with the intent of avoiding trial.

In so proposing, the Law Commission endorses the recommendation of the Home Office working party's report on Bail Procedures in Magistrates' Courts.¹ It prescribes instead of one year's imprisonment for the offence.

Absconders

This all looks like an unwieldy deghammer to crack a nut-

Is it necessary to add a further charge because they failed un-
derstand their trial? To the
extent that they should be

And if they are acquitted of the crime, is it right that the law should penalise them when they should never have in the first

freedom been respected, in their
time when there is a desperate need to reduce the
prison population—the Minister
of State at the Home Office last
week gave the gloomy news that
the population is nearly 40,000
and that the drop in numbers
—we should be chary of im-
posing further imprisable
effences.

Failure to answer Ball should
ordinarily lead to forest of the
Government's recognition and
failure to pay should not become
imprisable; a fine should
suffice.

The Government is proposing
to introduce a Bill in its
legislative programme in the
next session of Parliament.

It will be interesting to see
whether a liberal Home Secre-
tary will accede to an liberal
by two
separate committees.

Working Paper No. 62: Criminal
Law: Offences relating to
the Administration of Justice.
HMSO, 65p.

YACHTING **BY ALEC BEILBY**

Mr. Heath finds his form

[illegible][illegible]

French buy ketch for FT Clipper race

[illegible]

way for the summer chart season in Greece. Kersauson, one of the stowmen aboard Eric Tabarly's *Quick VI* during the Whitbread race, pronounced the yacht capable of overall honours.

Former French Marine commando, Michel Doucin, is preparing the 45-ft ketch *Vedette* for the race at Cherbourg—with an entire crew of handicapped people. Doucin, who lost an arm in active service, has equipped the yacht with special sailing facilities and aids.

RACING **BY DOMINIC WIGAN**

[illegible]

winner, the popular veteran Daniel.

Wille Carson, field and the Purple Easter Plate on the Barons will train for Tuesday before coming in to complete a double at Windsor's evening meeting.

Emmie Duff, who may well be something to bet on in the Bourne End Plate.

Looking ahead to Royal Ascot, it seems more than probable that Lester Piggott will win the top jockey for the day, and it is the present odds of 10 to 1 appeals as an outstanding bet.

Five likely winners for him are Imperial March (Green), Neptune Stakes (Cress), Tuesday (Clare), Prince of Wales Stakes (Tuesday), Rose Bowl (Cormack), Stags Wednesday, Warrington (Jersey Shakes, Wednesday), and Sagara (Gold Cup Thursday).

If Piggott fails, however, Frankie Durr (2-1) is a candidate from the Friday afternoon ride, will probably

20 June 1975



Lyonel Feininger: Ships in Fjord (ink and watercolour on paper)

Achim Moeller

Lyonel Feininger

by WILLIAM FEAVER

Lyonel Feininger started as a cartoonist. He didn't finish his first oil painting until he was 36. He was a late developer. But throughout his career he retained some of his caricature devices, the bare minimum lines, the tendency to diagrammatise. Indeed, his way of representing towers, skyscrapers and sailing boats had a strong element of scene-setting about it, as though a joke or a drama were about to develop on the spot. Not that this is the way he intended his later work to be regarded. The subtitle to the exhibition of his work at Achim Moeller's gallery is "Visions of City and Sea," a sonorous phrase implying the highest possible intentions. And certainly the work for which Feininger is best known, spires and masts sailing the skies in a kind of skyscraper cubism, has no obvious connection with the caricature origins.

Yet there are clues, even in this fairly small exhibition. The Feininger drawing made in 1916, some time after he had stopped working for the papers, covers the divide between commercial wit and the development of a more private sensibility. A gaunt angler in a top hat poses with his catch while all around other, near-identical figures watch and fish fruitlessly. From that to drawings in which the figures are reduced to triangles, is only a slight development. And from these to landscapes in which even the sun is squared off is, again, not much of a leap forward.

There is nothing wrong in this—the distinction so often made between the art of caricature and fine art proper, as between drawing's sake, are largely determined by snob values: how ever Feininger's work does seem to me to be rather a caricature version of vision. There is never the sense of liberation, of imaginative boundlessness, of fierce intensity that true vision involves. His paintings and drawings appear mapped out, meticulously refined, with every line scratched in as though studied. Slight bleedings where the ink spread over the wet paper give occasional suggestions of improvisation, but in general the drawings are set-square, tidy and thoroughly non-accidental. Somewhere along the line curves appear to have been eliminated from his work, not so much to make his effects more dynamic as to tighten up the manner and provide style. Thus every move and stroke appears a foregone conclusion.

There are only a few paintings in this exhibition so it is not possible to look too closely into the differing degrees of finish. Feininger considered necessary in the two media. However, there are enough drawings, both works that are ends in themselves and studies for paintings, to give a good idea of his strengths. The best are undoubtedly the most fancy-free designs, in particular a drawing of two cargo boats chugging over a strange, curved northern sea. There is a lightness of touch here which is dispelled in the more standard "visionary" architectural schemes.

Lyonel Feininger is at Achim Moeller until July 19.

Aldeburgh Festival

Richter

by GILLIAN WIDDICOMBE

To Blythburgh, once a flourishing medieval port, now a pretty village mid heath and marsh. T. Blythburgh church, where one works burnable in a rough clover meadow, sits on oak benches as old as they are uncomfortable, and stares at a superb wooden ceiling with frescoes and carved angels, as good for sound as visually beautiful. To Blythburgh, last week, to hear Sviatoslav Richter play a stunning Beethoven recital. Richter had not played in Britain for five years, and kept the audience waiting for nearly 20 minutes. Eventually he came on, looking relaxed and genial. Lights were turned down, so that as the evening darkened, spotlights in the transept lit him only as a black silhouette. A dramatic evening. Bedazzled in several senses, we stared rapt at the gruff, inscrutable profile, sharing imaginings of demon rage and serene dreams.

The Hammerklavier was the evening's throne, but first Richter played the C major Sonata, Op. 2, No. 3, and three Bagatelles from Op. 1 to 6. The schoolish impulsive C major suits Richter perfectly as a beginner, with its nonchalant opening phrase and so many of the ructions of later sonatas previewed in miniature. Richter can test his emotional temperature without dredging his fervour. I remember a Festival Hall recital, say ten years ago, when he gave a wild, angry performance, like a mad tiger; but last week's was more mellow, bountiful, capturing the playful humour in lyrical phrases, the pressing energy of rapid scales, and the whiplash attack of snapping cadences. The exposition repeat was turned to perfection; phrase-colouring similar but never the same—the musical equivalent of the same picture viewed from a new angle. Fascinating to realise that no matter how spectacular some of his pianistic effects—twinkling trills driven so hard that they bite the piano tone like

Greenwich Theatre

The Knight of the Burning Pestle

by B. A. YOUNG

Beaumont and Fletcher's City pany it does not call for any comedy makes an admirable subtleties of playing; all that is relaxation for a summer evening. As it deals with a per- reasonable restraint. formance by an amateur com- "Reasonable" is not too

Don't miss this date



or these: June 11-June 21
**THE GROSVENOR HOUSE
ANTIQUES FAIR**
and '100 years of the Arts' (1830-1930)

In 410 AD the Romans finally withdrew from Britain—and left behind a cultural influence reflected in so many antiques. The finest collection of pre-1830 antiques on the world market is in the Grosvenor House, Grosvenor House, Park Lane, London. Telephone: 01-499 6363. 11 June: 5.00 p.m. - 7.30 p.m., then daily till 21 June: 11.00 a.m. - 7.30 p.m.
'100 years of the Arts' in the Grosvenor House Ballroom. 12 June: 3.00 p.m. - 7.30 p.m., then daily until 21 June: 11.00 a.m. - 7.30 p.m. All items except those on loan are for sale. Admission £1.

Liverpool Everyman

Under New Management

by MICHAEL COVENEY

Last week in the House of Commons, during a debate on the future of the nationalised industries, one Tory MP congratulated another on seeming to belong to "that growing band of Tory red-shirts who will be fighting for the thesis of worker participation as the alternative to the declining and somewhat discredited forms of managerial capitalism which are espoused by the CBI." At the end of C. G. Bond's spirited play about the famous spirit occupation at Fisher-Bendish in Kirkby, the days of the old capitalist managers are declared to be "over." And as far as that particular factory is concerned, so much is true. The sins of 15 years of bad management are never concealed in the play. Mr. Bond has concentrated on distilling the essential character of a place of work which was nearly destroyed.

It is written subsequent to extensive interviews with the stewards and employees of the shop floor at the KME factory (as it is now known). A detailed reconstruction of all the events would be clearly impossible, so the playwright adopts methods tested and true to convey essential information. A cartoon-like version of Harold Macmillan wanders around a huge washing machine, muttering about "shambolic" management before inserting a sixpence and climbing aboard for speedy revolution. Simultaneously, almost, we learn that between 1961 and 1971 the factory had 12 general managers. "If one arrived who had any ability," he was not allowed to use it," declares one of the lads, pained at the thought of time and money wasted on the stagnation of sinks, gas fires and cookers.

He and his colleagues could obviously have been forgiven for wondering whether, perhaps, the place was operating as a tax dodge. These emotions of anger and insecurity are forcefully conveyed by the company as they close ranks and in a strikingly staged sequence, chug energetically over the scaffolded design of Graham Barkworth and Helena Parr before arriving on mass with a rousing ovation from the people they both serve and represent.

Nottingham Playhouse

Walking Like Geoffrey

by MICHAEL COVENEY

"A Tale of Old Gotham" is the subtitle for the Playhouse's contribution to the city's annual Festival which opened on Saturday. Here, at its strongest in respect of both stunts and words.

Mr. Campbell demands very difficult things of his stage directors. In *The Great Caper* it was required that the search party demolish a wall. Here, at the end of Act 1, Sir Eustace Doderell (Roger Sloman) attempts to dodge the curse by "prancing" his soul to another universe—first by juxtaposing excitement at his servants in underwear with the sexless solidity of his wife (Pat Keen), and then by deducing his existence as the element of another person's dream and attempting to destroy the fabric of that dream with excessive actual behaviour. Thus the curtain falls on a scene of domestic carnage and Sir Eustace stabbing himself 30 times. Such amazing events are hard to represent. The director, Richard Eyre does, on the whole pretty well, although he is far more successful at coping with Mr. Campbell's exquisite facetiousness. Old Gotham is blessed with not only wet trousers before attracting Geoffrey, but also a fleet of chaps.

The Entertainment Guide is on Page 9

The gun. Gotham is arrived at the gun. Adrian Creamwell (Richard Howard), dilettante, and dabbler in The Occult, in the course of his quest for the origin of a Druidic curse that has played havoc with the aristocratic family tree of Joderell, Mr. Campbell's play at the Royal Court last year. The Great Caper, charted the progress of an alternatively-cultured Boswell and Johnson in their search for the Perfect Woman; that play was in terms of narrative stronger and more coherent. But Geoffrey has many elements in common with it, and, as

Gissing honoured

The novelist George Gissing was honoured last week at a small ceremony in Chelsea, when a blue plaque in his memory was unveiled at 33 Oakley Gardens, S.W.3. Gissing lived there when he was in his early twenties, from 1882 to 1884. It was then known as 17 Oakley Crescent.

Gissing paid 7s. a week for two rooms to his landlady, a Mrs. Coward. He wrote industriously while he was there and completed his novel, *The Unclassed*. By now separated from his first wife, he found in the house a modicum of calm and creative freedom. He also began at this period to take in pupils in classics, which was to provide him with a livelihood for several years while he fought to support himself from literature.

Last week Professor Pierre Cousteau, the leading authority on Gissing, spoke of his compassion for the poor and his intimate knowledge of late Victorian London, before pulling on the cord that released the Union Jack concealing the gleaming plaque provided by the GLC.

There are already plaques in memory of Gissing in Wakefield where he was born, and in Paris, where he lived for two years. A.C.

'Overlord' for Berlin Film Festival

The Imperial War Museum announces that *Overlord*, the first feature film to be made under its auspices, has been selected by the organisers of the 25th International Film Festival at Berlin between June 27 and July 5 as one of two new British productions to be shown in competition.

Overlord was produced by James Quinn, directed by Stuart Cooper, and written by Christopher Hudson and Stuart Cooper. It tells the story of a young soldier from his home in Dorset and the Allied landings in France on June 6, 1944.

Sadler's Wells Theatre

Moves/Eclipse/Juice

by CLEMENT CRISP

Nederlands Dans Theater's had discovered the possibilities of an echo-chamber, and then made me suspect that the company is currently toying with the Death wish. A kamikaze dive into pretention and fatuity, it started very well with a sure-footed account of Jerome Robbins' *Moves*, that ballet in which silence is a positive accompaniment to dance.

Robbins' theme is that bodies may be seen to respond to each other without music's promptings, and the NDT dancers are alert in their relationships, clean and handsome in their understanding of timing. The quirks and "asides" about movement with which Robbins enlivens his choreographic structure are nicely played—one boy dropping suddenly in the "Dance for Men" and then caught up again in the corporate activity; the isolated boy and girl who dance solo in the duet section as if their partners were there—all these are incidental pleasures in a work that still compels admiration.

Thereafter, all I could admire was the company's dogged persistence when dealing with works by Louis Falco and Margo Sappington which featured the deadlier pretensions of American dance. Mr. Falco's *Eclipse* is burdened with a brutish score by the Burri Alcantara that starts by sounding as if Tibetan monks know and love?

Elizabeth Hall

Jean Fonda

by DOMINIC GILL

Chopin's F sharp minor Polonaise can be a wonderfully effective curtain-raiser. It can also, unless the nerve is rock-hard, quite easily misfire: and indeed one had hoped that the French pianist Jean Fonda's unhappy performance of it at the start of his recital on Thursday—nervous, inaccurate, over-pedalled, prosaic, leavened only with a few moments of very un-Chopinesque whimsy—might prove to have been the result of no more than short-lived curtain nerves.

Stratford's royal gala

Tickets are still available for the Royal Gala Performance of Henry V at Stratford-upon-Avon on June 27 to raise funds for the preservation of the theatre. The more expensive tickets include admittance to a Garden Party in the afternoon which the Queen will attend.

Tickets are also available for the Centenary Gala Recital on Sunday, June 29, in the theatre.

TWA. FIRST OF THE DAY TO THE USA.

NEW YORK:

747 departs 10.00, arrives 12.35.

747 departs 12.00, arrives 14.35.

707 departs 17.00, arrives 19.55.

The 12.00 flight continues on as a 707 to Cleveland, St. Louis, Kansas City.

BOSTON:

747 departs 11.15, arrives 13.20.

Continues on as an L1011

to Los Angeles (arr. 18.37).

PHILADELPHIA:

707 departs 11.30, arrives 14.35.

The only non-stop flight of the day.

Same plane continues on

to Pittsburgh (arr. 17.21).

CHICAGO:

747 departs 12.30, arrives 15.00.

Same plane continues on

to San Francisco (arr. 19.58).

LOS ANGELES:

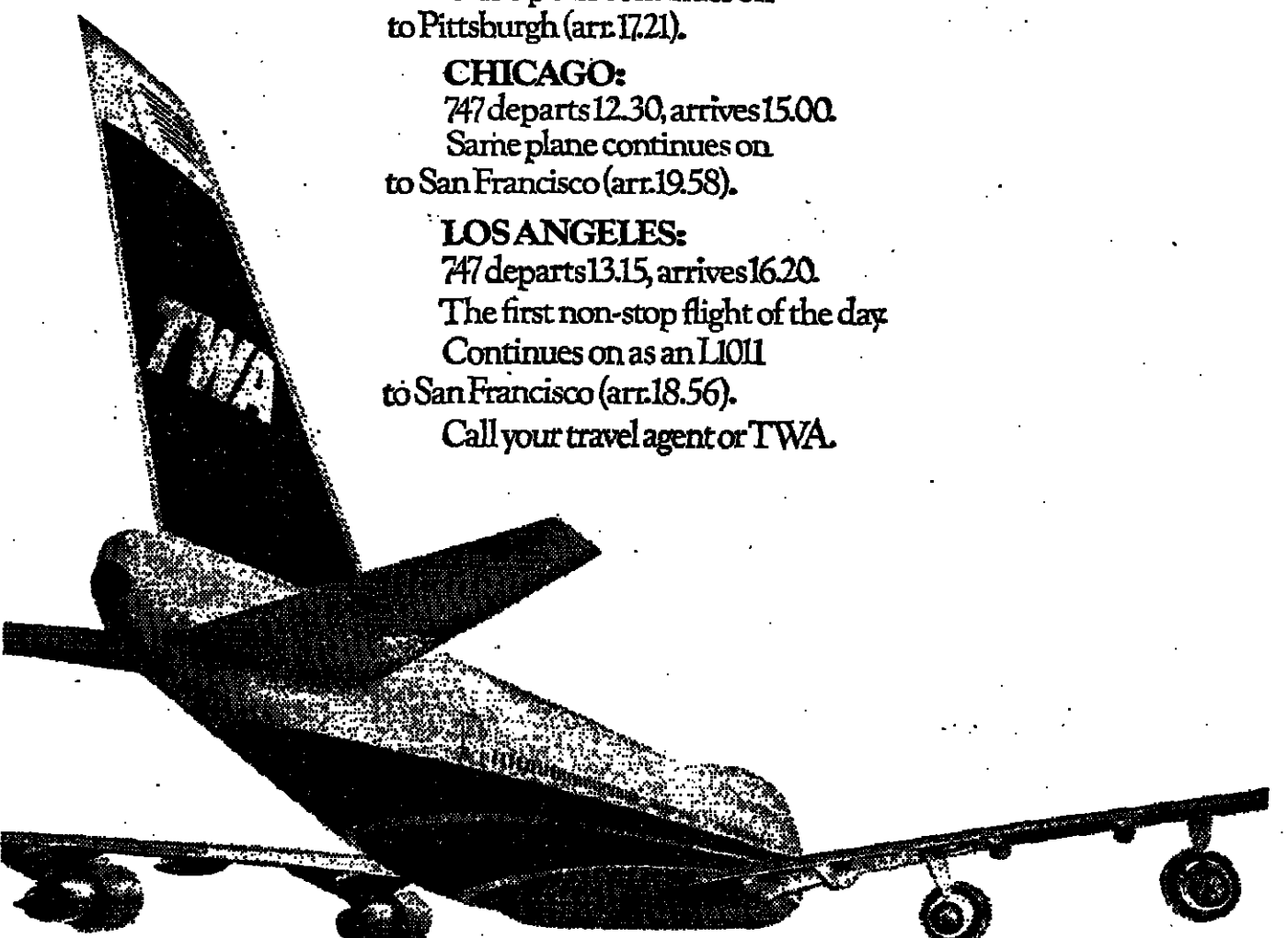
747 departs 13.15, arrives 16.20.

The first non-stop flight of the day.

Continues on as an L1011

to San Francisco (arr. 18.56).

Call your travel agent or TWA.



Trans World Service from TWA.

HOME NEWS

MP backs move to suppress Crossman diaries

FINANCIAL TIMES REPORTER

MR. TAM DALYELL, Labour MP for West Lothian, who was a friend of the late Mr. Richard Crossman, said yesterday that the Attorney General had a respectable case for seeking an injunction to prevent publication of the first volume of the Crossman diaries on the Labour Government, covering 1954-66.

Mr. Dalzell was a former Parliamentary Private Secretary to Mr. Crossman and for 11 years they shared a house in London. The diaries have already been serialised partly in the Sunday Times.

A spokesman at the office of Attorney General Sir John Peel said that the Government would seek an injunction in the High Court to prevent publication of the first volume of the diaries.

The spokesman said, "This is the Attorney General's decision. He has consulted his legal advisers but had not consulted the Prime Minister or other ministers."

Mr. Crossman's literary executor, his widow Mrs. Anne Crossman, Mr. Michael Foot, Employment Secretary, and the publisher Mr. Graham Greene are to oppose the attempted ban. It is expected that the case, because of its constitutional implications, could eventually go to the House of Lords.

Mr. Dalzell said yesterday: "I think that publication might create a tremendous amount of controversy on top of what we already have."

"I have read a great deal of the book. I think it is a great book and should be published, certainly within this decade, but not immediately."

Mr. Dalzell said that Mr. Crossman's book was different from memoirs of other leading politicians including Churchill, Macmillan and Mr. Wilson. "In these memoirs they did not go into anything like the detail, especially about people, that the Crossman memoirs do. The difficulty is a real one especially after the publication of extracts in the Sunday Times."

"There are men of considerable literary ability in this present Cabinet. If direct opinions are to be attributed to people, it may have a quarter of a century before they can be published without inhibiting actions in Cabinet."

In the past I have been ambivalent about publication. But since Patrick Crossman's death and having seen the cold print, I now come down on the other side of the fence."

Patrick Crossman, the 17-year-old son of the late Mr. Crossman, committed suicide while the diaries were being serialised.

Watney raises strengths but prices stay same

BY KENNETH GOODING, INDUSTRIAL CORRESPONDENT

FROM TO-DAY WATNEY, the centre of a row between brewing division of the Grand Metropolitan Group, is to increase the strength of four of its beers which account for 40 per cent of its draught beer output.

The beers are special bitter, Truman special, Ben Truman export draught, and Norwich special, which is sold in East Anglia.

The prices will not go up, though the extra duty cost to Watney may be as much as £300,000 a year.

Watney said at the weekend: "We never disclose the gravity of our beers. You will have to wait for other people to do their tests."

The special bitter has been at

the centre of a row between Watney and the Campaign for Real Ale. Watney discontinued an advertising campaign for it last November when the Advertising Standards Authority ruled it was misleading.

In February the company launched its special bitter campaign with a slogan approved by ASA, but criticised by CAMRA, featured in a critical Sunday Times article, and the butt of a joke item on the Nationwide BBC television programme.

Watney decided to scrap the new campaign at a cost, CAMRA claims, of about £220,000.

It says that increasing its beer strengths has nothing to do with that episode.

Motor-cycle men to meet Varley

By Peter Cartwright

MR. ERIC VARLEY, who has taken over from Mr. Wedgwood Benn as Industry Minister, has rescheduled the meeting over the future of the motorcycle industry—including the Meriden Co-operative at Coventry—to next Wednesday.

Mr. Denis Poore, Norton Villiers Triumph chairman, and other members of the Board, the Meriden Motor Cycle Co-operative—each of which was set up with nearly £5m. of Government aid—and national officers of the Confederation of Shipbuilding and Engineering Unions were to have met Mr. Wedgwood Benn on the day on which Prime Minister's Cabinet changes became effective.

The confederation has been pressing the Government to take further measures to bring the industry into public ownership, while Mr. Poore has argued for the investment of another £25m. to increase the model range and profitability of a three-factory industry.

This includes the two NVT factories in Birmingham and Wolverhampton and the Meriden factory which NVT had planned to close nearly two years ago.

The Meriden Co-operative was uncertain last night which bat it was supposed to be wearing to the meeting. So far, it has been invited only by the confederation, yet its union members are also part owners and they have still to hear from Mr. Varley.

Mr. Dennis Johnson, the co-operative chairman, and Mr. David Jones, the new professional managing director appointed from the motor industry, are likely to represent Meriden management if invited in that capacity.

More aluminium but trade contracts

BY RHYE DAVID

ALUMINIUM PRODUCTION in Britain was at its highest level for 18 months in April but the pattern of depressed trading which has been apparent in all sectors since the end of last year shows no signs of coming to an end.

The U.K. smelters produced 27,251 tonnes in April—a total exceeded only in December, 1973—according to the latest statistics published by the Aluminium Federation in Birmingham. Dispatches of primary aluminium to customers are down, however, by 33 per cent in the first four months of 1975 compared with same period last year, largely as a result of a sizeable drop in imports.

Whereas in January-April, 1974, 85,421 tonnes were imported to meet the shortfall in U.K. production, this year the total has come to only 45,178 tonnes—a drop of 47 per cent. Total dispatches, at 183,001 tonnes in the first four months of 1975, amounted to only 128,466 tonnes in the same period this year—the lowest total since 1971 for the period. Dispatches in April itself totalled 23,898 tonnes, against 47,597 tonnes in April last year.

A similar picture emerges from figures for secondary aluminium production—largely reclaimed metal—which in the first four months of the year totalled 59,398 tonnes, a drop of 18 per cent.

April dispatches of rolled products totalled 12,428 tonnes, the lowest total again since 1971 and a drop of 38 per cent on the April, 1974, figure of 19,819 tonnes. In the first four months of 1975 dispatches are down 26 per cent on last year—78,964 tonnes against 106,487 tonnes.

The fall in extrusions has been somewhat less severe, with April's total coming to 14,432 tonnes against 16,798 tonnes in April, 1974.

VAT boycott ends after 'breakthrough' talks

THE NATIONAL Federation of Self Employed called off a threatened VAT boycott, yesterday, following "a breakthrough" in relations with the Government.

The federation has instructed its members to withhold payment of VAT after July 1 unless the Government was prepared to reconsider the "special case" of the self-employed and small businesses.

The decision to call off the Treasury.

boycott was taken after a meeting between a four-man federation team and Dr. Mark Hughes, Parliamentary Private Secretary to the Treasury.

The federation is now to submit detailed proposals to deal with the problems that collection of VAT creates for the self-employed. Dr. Hughes undertook to try and arrange a meeting between the federation and the Financial Secretary to the Treasury.

While it is recognised that Governments have the right and duty to protect consumers, these regulations are often unnecessarily complex or inconsistent.

"We feel that the Tokyo Round should be used as an opportunity for initiative in reviewing the present trend of proliferating regulations. A set of rules should be established on which the regulations should be based."

"The draft Code of Conduct on non-tariff barriers (which is intended to apply mainly to industrial products) should be extended to the food and drink processing industries."

They are a very considerable and growing barrier to trade. We have in mind regulations such as those concerning food additives, labelling and marking requirements, standards and composition, packaging, and veterinary and animal health matters.

At the present milk price and feeding costs, winter milk production no longer makes economic sense.

Calling for a substantial increase in the farmers' milk price to be announced before August and to operate from October when winter breeding starts, Mr. Jackson warned: "I believe the consumer should pay the cost of producing milk, which without subsidy would be 5p a pint."

P.O. delay for data transmission

By Christopher Llewellyn

THE POST OFFICE has told 40 of its most important data transmission customers that the new experimental packet switched service (EPSS) will not start fully until next May, nine months behind schedule.

The main reason for the delay appears to be late delivery by the Post Office of a public switched digital data network which is to be used by the EPSS. The network is to be built in stages using 13 Argon micro-computers and associated software. Publicity about the company's financial problems last autumn apparently made it difficult for a time to secure electrical components from outside suppliers.

The P.O. has said that future plans for the provision of a public switched digital data network will be influenced by the experience of the two-year EPSS experiment.

The availability of a network has been urged by many users. Digital data from computers at present has to be converted into analogue signals for transmission down the telephone line.

The P.O.'s new schedule seems to start in October, followed by a limited local service in Manchester and London in December. After a further interim extension of the service in February, full operations on the Glasgow-Manchester-London network should start in May.

Milk shortage threatened this winter

A WARNING that the U.K. is threatened with a serious shortage of milk and cream this winter, and possibly rationing over Christmas, was made yesterday by Mr. Jim Jackson, vice-chairman of the Milk Marketing Board.

He said that because low milk prices had destroyed their confidence, a record number of 8,000 farmers had gone out of milk production in the past year.

"At the present milk price and feeding costs, winter milk production no longer makes economic sense."

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Biggest oil platform on way to Forties

THE OIL PLATFORM

Graythorpe 2, delayed by bad weather after its naming ceremony, was floated out from the Hartlepool construction yard of Laing Offshore early yesterday and was towed by tugs on the first lap of a 300-mile journey to the BP Forties field.

Graythorpe 2, 32,000 tons and twice the height of Big Ben, is believed to be the largest steel structure in the world. It is expected to reach its destination, 150 miles North-East of Aberdeen, in two days if weather conditions are good.

The platform was to have been floated out on Saturday afternoon, but gusty winds delayed its

departure. Graythorpe 2 took 10 months to build and was completed four weeks ahead of schedule.

At the naming ceremony there was a plea to the Government for orders to keep the manufacturing going.

Sir Maurice Laing, chairman of John Laing Construction, said: "We have another platform to build immediately, but this, but we urgently need further order to keep us going."

He added: "The good news of Graythorpe is simply that British workers and British management, ably led and working together, are still unbeatable."

Press Council critical of carnival case

THE NEWS of the World and Southampton City Council have been criticised in a Press Council adjudication.

The city council had complained that the newspaper published an article which was grossly inaccurate and misrepresented events which it was supposed to describe.

An action committee organised a "carnival of rage" to draw attention to the fact that the city's Northern area was in need of urgent improvements.

The News of the World published a story headed "Shunt Rides Windows of Shame" and "Demo demands action on vice girls". The Press Council adjudication was: "In the opinion of the Press Council the subject matter of the article was of serious public interest, sensationalised in a way calculated to attract publicity, and it did not demand action on vice girls."

The Press Council upholds the complaint against the News of the World only to the extent that the headlines and initial paragraphs of the news story were not accurate as to the motivation and conduct of the procession."

The Press Council upholds the complaint against the News of the World only to the extent that the headlines and initial paragraphs of the news story were not accurate as to the motivation and conduct of the procession."

Pipe-plant plan scrapped

BY OUR NEWCASTLE CORRESPONDENT

Anchor-Wate has dropped plans to build a £25m. plant at South Shields to coat pipes for North Sea oilfields.

The firm is to give up the lease it has held for two years on a 25-acre site at Tyne Dock.

Anchor-Wate, a British subsidiary of an American group, said the project, which was planned up to 500 jobs, had been shelved because of uncertainty over the future demand of North Sea oil and shortage of investment funds.

Businessman's Diary

U.K. TRADE FAIRS AND EXHIBITIONS

Date	Title	Venue
Current	Grosvenor House Antiques Fair (cl. June 21)	Grosvenor House, W.1
Today	Provincial Booksellers' Monthly Fair (cl. June 17)	Kenilworth Hotel, W.C.1
June 17-20	Royal Highland Show	Edinburgh
June 17-20	Microform International Exhibition	West Centre Hotel, W.6
June 22-26	Contract Furnishing and Interior Design	Olympia
June 23-27	Int'l. Film Technology Exhibition and Conference	Royal Lancaster Hotel, W.2
June 23-27	Euro. Study Conf.: Employment Protection Bill	Exhibition
June 25-26	Royal Norfolk Agricultural Show	Norwich
June 30-July 3	Royal Agricultural Show	Kenilworth, Warwick
July 1-3	Electronics Exhibition	Leeds University
July 8-9	Business '75 Exhibition	Middlesbrough
July 8-10	Great Yorkshire Agricultural Show	Harrogate
July 8-11	Int'l. Audio-Visual Aids Exbn. and Conf.	Olympia
July 14-26	North-West '75 Home and Leisure Exbn.	Blackpool
July 18-26	Brighton Antiques Fair	Corn Exchange
July 20-21	Fish Catering Services Exhibition	Regent Centre Hotel, W.1

OVERSEAS TRADE FAIRS AND EXHIBITIONS

Current	Title	Venue
Current	Technical Goods Fair (cl. June 17)	Poznan
Current	International Fair (cl. June 22)	Lisbon
Today	Laboratory Equip. and Medical Aids (cl. June 22)	Zagreb
June 17-20	International Knitwear Exhibition	Milan
June 17-21	Brit. Export Centre: Camping and Leisure Exbn.	Tokyo
June 17-21	International Education Exhibition	Paris
June 17-26	European Machine Tool Exhibition	Paris
June 18-23	International Art Fair	Basle
June 19-22	International Pharmacists' Exhibition	Basle
June 20-24	Music Industry Trade Show	Chicago
June 20-25	Building Materials and Pre-Fabrication Fair	Tehran
June 23-27	International Packaging Exhibition	Brae
June 24-27	Opto-Electronic Systems Exhibition	Munich
June 24-28	Irish Cleaning and Maintenance Exhibition	Dublin
June 24-July 6	Housing and Public Works Exhibition	Naples
July 1-8	International Saba Saba Trade Fair	Dar es Salaam
July 3	Zambia Trade Fair	Ndola
July 4-5	Glazing and Window Frame Exhibition	Stuttgart
July 4-13	Food and Agricultural Machinery Exhibition	Sao Paulo
July 14-17	Int'l. Fire Engineering Exhibition	Moscow
July 14-18	Medical Exhibition	Zolnesburg
July 14-18	National Housewares Exhibition	Chicago

BUSINESS AND MANAGEMENT CONFERENCES

Current	Title	Venue
Current	Lond. Grad. Bus. Sch. Corporate Fin. (cl. June 23)	Sussex Place, N.W.1
Current	Ashridge Man. Coll: Management Dev. (cl. June 27)	Berkhamstead, Herts.
Today	PE Cons.: Leadership in Management (cl. June 20)	Egham, Surrey
June 17	Euro. Study Conf.: Employment Protection Bill	Manchester
June 17	International Insider: Eurocurrency Lending	London Press Centre
June 18-20	Direct Mail Asia: Annual Conference	Amsterdam
June 19	Henley Centre: Middle East Economic Prospects	Carlton Tower, S.W.1
June 19-20	Financial Times, Straits Times, British Airways, Cathay Pacific Airways and Fairplay International Shipping Weekly: South East Asia Shipping	Singapore
June 19-20	Fulmer Res. Inst.: RPD Planning and Design	Slough, Bucks.
June 23-28	Bradford Univ.: Marketing and Logistics Planning	Heaton Mount, Bradford
June 23-July 11	Urwick Man. Computer Systems Analysis No. 39	Slough, Bucks.
June 24	Guardian Bus. Serv.: Understanding Con. Contracts	Hyde Park Hotel, S.W.1
June 24-26	PT Man. Serv.: Int. Auditing and Man. Systems	London
June 25	IPC Bus. & Ind. Trng.: Meat Alternative	Cafe Royal, W.1
June 25	Inst. of Marketing: Management by Commitment	London Tara Hotel, W.8
June 25	N.I. Dept. Com.: Steel Fabrication for Offshore Oil	Dunmurry, N. Ireland
June 25	Chatham House: The International Credit War	RITA, 10, St. James's Sq., SW1
June 25-27	Mayphone Press: Recycling and Waste Exchange	Palace Hotel, Buxton
June 28	Sino-British Trade Council: Chinese Oil	Excelsior Hotel, Glasgow
June 30-July 1	Computer Power: Advanced Filetab	Cannock, Staffs.
June 30-July 1	Strategic Man.: Creativity and Innovation	London Bus. School, N.W.1
June 30-July 2	South Wales Inst. Eng.: Materials Conservation	Cardiff
June 30-July 2	Dunchurch College: Know about Offshore Oil	Dunchurch, near Rugby
June 30-July 3	NE Scot. DA: Aberdeen—Europe's Offshore Capital	Aberdeen
July 2	Assn. of Cert. Accnts.: Current Taxation	Imperial Hotel, W.C.1
July 3	Inbucon/A.I.C.: Job Design at Work	Barrington House, E.C.2
July 3	South African Investment Seminar	Intercontinental Hotel
July 3	Staniland Hall: Outlook for Leisure to 1980	London Hilton, W.1
July 8	BACIE: Television in Training	Goldsmiths' College, S.E.14
July 8	Inbucon/A.I.C.: Relocation or Dislocation	Financial Times Cinema
July 9	Inst. Directors: Cap. Trans. Tax and Small Bus.	Royal Gaiety, W.1
July 10	New Law Journal: Revenue Law	Cafe Royal, W.1
July 10-13	IEE: History of Electrical Engineering	Manchester University
July 14	CBMPE: Electronics in Offshore Operations	(3rd) Reval, W.1
July 14-18	Louis A. Allen & Ass.: Professional Management	Grand Hotel, Eastbourne
July 15	North Paul & Ass.: Transactional Analysis	The Gloucester, S.W.7

APPOINTMENTS

Laing forms company for overseas work

JOHN LAING INTERNATIONAL, American subsidiary, Molins Machine Company Incorporated, has been formed to co-ordinate the overseas activities of John Laing and Son Group overseas.

The produce trading activities of GILL and Duffus and Landauer and Co. (Produce) have been merged under the name of GILL and DUFFUS LANDAUER. Mr. R. J. Thomas has been appointed chairman and managing director. Mr. J. W. Charney, managing director, Mr. C. J. Rockett, Mr. R. A. Seaborn and Mr. R. E. Whilden have been appointed directors.

Mr. Alan Barnes has been appointed secretary of BROWN LINE and will remain financial controller.

Mr. E. Willis-Jones has been appointed chairman of the JOHN TAYLOR DUNFORD GROUP, recently purchased by Thorn Electrical Industries. Mr. R. H. Dunford is deputy chairman and Mr. N. Wolf chief executive. Mr. J. D. Walker, chief financial executive of Thorn Measurement Control and Automation Division, and Mr. A. R. Spencer, sales director of Board as directors. The Dunford companies will be an integral part of Thorn Measurement Control and Automation Division, of which Mr. Willis-Jones is chairman and managing director.

Mr. I. R. G. Manning has been appointed managing director of the MOLINS subsidiary, Masson Scott Thirlwell Engineering. He succeeds Mr. J. F. Ebbetts, who becomes secretary and special director of Molins. Mr. J. A. Forest, previously sales and marketing director, becomes deputy managing director. Mr. S. A. Dreyfus has been appointed director of sales of Molins.

Mr. D. E. H. North, who becomes president of the Richmond division of the group's

The Financial Times, published daily except on public holidays. The price of the paper is 10p (including postage) per copy. The subscription price is £15.00 per annum in advance. The subscription price is £15.00 per annum in advance.

Major M. C. Keer has resigned from the Board of WOLSELEY-HUGHES on relinquishing his executive responsibilities in the Group.

Mr. Tom Harrison, managing director of Tozer Kemble and Milbourn, has been elected chairman of the BRITISH IMPORTERS CONFEDERATION.

Lord Zuckerman, former scientific adviser to the British Government, has been elected to the PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.

Mr. Keith Dexter has been appointed director general of the AGRICULTURAL DEVELOPMENT AND ADVISORY SERVICE of the Ministry of Agriculture in succession to Mr. Brian St. John, who has retired from public service on September 1. Mr. Dexter, at present Under Secretary in charge Forest, previously sales and marketing director of divisions, will be promoted to Deputy Secretary on taking up his new appointment.

The Financial Times, published daily except on public holidays. The price of the paper is 10p (including postage) per copy. The subscription price is £15.00 per annum in advance. The subscription price is £15.00 per annum in advance.

For reservations or more information on this public seminar please contact NORTH PAUL AND ASSOCIATES LTD. P.O. Box 332, London W2 2LL. Tel: 01-723 0171/2

TRANSACTIONAL ANALYSIS AND THE WORLD OF WORK

A PRESENTATION BY Ms DOROTHY JONGEWARD 15th JULY 1975

In conjunction with North Paul and Associates Ltd. and Addison-Wesley Publishers Ltd. at the Gloucester, London, S.W.7. Dorothy Jongeward is a pioneer and leader in the application of Transactional Analysis to management practice, organization development and the world of work. Her books include "Boys to Win" and "Everybody Wins". Fee: £35 + £2.80 VAT per delegate.

When Britain's first offshore oil started to flow from the Argyll field in the North Sea last Wednesday, it was conveyed to the waiting tanker through special hose manufactured at the Salford, Lancashire, factory of Allied Polymer Group's A.P.G. Hewitt Hose Limited.

A.P.G. manufactured the underwater hose and the floating hose used in the operation.

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LABOUR NEWS

Electricity unions reject TUC participation plans

BY ROY ROGERS, LABOUR CORRESPONDENT

TUC PROPOSALS for worker participation in the electricity supply industry, submitted to the Plowden Committee of Inquiry, are likely to be disowned by several of the industry's main unions which have already presented contradictory evidence.

The TUC evidence, published today, calls for trade union involvement in decision-making at all levels, including 50 per cent representation on a supervisory Board designed to control a proposed England and Wales Electricity Corporation.

This goes against the views of several of the industry's manual unions as expressed in their submission to the committee where they said "several major unions would not support this direct involvement of trade unions in the management function."

This issue was put more clearly yesterday by Mr. John Lyons, general secretary of the Electrical Power Engineers Association, who said he was "concerned" at the TUC proposals for worker participation.

"Not only is this an ill thought out proposal, but the TUC has not even asked the unions in the industry if they want such an arrangement."

"As far as we are concerned only one union in the industry—the Transport and General Workers Union—was positively in favour of such a proposal," he added.

The disapproval of the TUC evidence is no doubt a factor behind the low-powered delegation which will give additional oral evidence to the committee later this week. Only one general secretary is in the team, Mr. Geoffrey Drain of the National and Local Government Officers' Association, two of the delegation are national union officers from the gas industry, while the EPEA will not be represented at all.

Mr. Frank Chapple, general secretary of the Plumbers' and Pipefitters' Union, will not be in the party as he is also a member of the Plowden Committee. But both he, and his union concerned, have come out recently against the principle of worker participation at Board level.

Less contentious items in the TUC evidence include ending the

separate functions of the Electricity Council and Central Electricity Generating Board.

Their recommendation of a new England and Wales Electricity Corporation means the electricity supply industry would be controlled in the same way as the gas, coal and steel industries. It would ensure a unified structure of decision making in the industry.

Although the new corporation should have a main centralised planning function for the whole industry, as much administrative decentralisation as possible should take place through the area boards.

The TUC, however, says that it "sees no disadvantage in the price setting powers of the area boards back to the central authority."

Although the TUC proposes a main board for the proposed EWEC—half of which should be composed of union representatives—it considers that this main board would not be the operative body for wage negotiations. These, it suggests, should be dealt with by a subordinate executive.

NUM censure threat for pro-Market MPs.

BY OUR LABOUR STAFF

FIVE YORKSHIRE MPs sponsored by the National Union of Mineworkers now face up to three censure motions from union branches at next week's Yorkshire area NUM council meeting.

The five, headed by Mr. Roy Mason, Minister of Defence and MP for Barnsley, have angered some left-wing miners by their open support for British membership of the EEC. The Yorkshire NUM Council was strongly opposed to continued membership.

Mr. Arthur Scargill, the union's president and a leading campaigner for a No vote in the referendum now has to decide whether to allow the highly critical resolutions to be debated.

In the past he has usually persuaded delegates to avoid a direct confrontation with their sponsored MPs. But this time he is expected to allow at least one motion to be fully debated.

He is likely to choose the one from the Barrow Colliery branch, in the heart of Mr. Mason's constituency. This demands the withdrawal of sponsorship from Mr. Mason and the other four pro-Market MPs—Mr. Alec Rodall (Hemsworth), Mr. Alf Roberts (Normanton), Mr. Edwin Wainwright (Dearn Valley) and Mr. Joe Harper (Pontefract).

The area's other sponsored MP, Mr. Dick Kelley (Don Valley), was a firm supporter of the union's campaign against Common Market membership.

Mr. Mason on several occasions has clashed with the union over his pro-EEC views, especially when he openly campaigned to try to stop the NUM adopting its initial anti-Market stance in 1971-72.

If a censure motion is carried, the main threat is a potential withdrawal of financial support for the offending members, and even the Labour Party at the next election.

'Companies frustrated IR Act's closed shop provisions'

BY JOHN ELLIOTT, LABOUR EDITOR

A GENERAL defence of closed shops in industry, plus an allegation that companies tried to "frustrate" the Industrial Relations Act's attempts to outlaw such arrangements are launched this morning in a new book written by four labour academics.

Published when closed shops, especially in the newspaper industry, are at the centre of the controversy over legislation now passing through Parliament, the book reports that 40 per cent of trade unionists belong to closed shops.

It argues that many companies like closed shops, and that, in general, individual workers do not object to them. It also suggests that lessons to be learned about the ineffectiveness of labour law which does not command law which support could be relevant to laws on race relations and equal rights for women.

These arguments form part of a book called "Industrial Relations and the Limits of the Law," written at Warwick University which assesses the limited effects of the Conservative Government's 1971 Act.

The authors claim that employers in general did not like the idea of the threat of law, involving third parties having a say in their affairs, being used in industrial relations.

Managers were specially reluctant to see bargaining arrangements disturbed by the new use of the law, that in general individual rights, and combined

effectively with unions to draw the sting from the law's attack on closed shops. Nor were they keen to use the law to enforce procedures or prevent costly disputes," say the authors.

"Managers were aware that legally enforceable agreements, attempts to end the closed shop and restrictions on the right to take industrial action were strongly opposed by unions and their members. They were reluctant, therefore, either to enforce the legal rights of others or to use legal sanctions that were designed to enhance their own authority."

The book suggests that a combination of employers doing their best to get round the IR Act's outlawing provisions plus some apparent Government indifference, taken together with the courts' inability to enforce the law fully, meant that generally closed shops stayed in being in some informal but effective sense.

During the three years prior to the Act coming into force in 1971, closed shops were being adopted in new areas, especially for clerical and junior management groups.

In a survey conducted by the authors, 16 out of 39 companies acknowledging the existence of closed shops plus three nationalised industries said they had come into force between 1968 and 1971.

"There is no evidence, either from industrial experience or the use of the law, that in general individuals regard compulsory

trade unionism as a serious infringement of individual liberty," says the book. On the other hand, the advantage of closed shops to management is that they can avoid inter-union competition for membership while also giving unions the power to enforce agreements on their members. "The closed shop may be seen as an expression of the collective nature of the employment relationship," suggests the book.

The main reason that the IR Act failed to stop closed shops operating was that "employers defended it almost as tenaciously as did workers." By using "persuasion, the recruitment interview, induction, and a variety of techniques, managers set out to frustrate the intention of the law," claim the authors.

"Their success must raise doubts about the ability of the law to protect individual rights in the field of employment unless these rights are seen to command wide support or serve the interests of the parties to collective bargaining. Our evidence has clear implications for the employment rights contained in race relations legislation and laws to secure equal rights for women."

Warwick Studies in Industrial Relations, Industrial Relations and the Limits of the Law—the industrial effects of the IR Act 1971. By Brian Weekes, Michael Mellish, Linda Dickens, John Lloyd. Basil Blackwell, Oxford. £7.50 hardback. £3.95 paperback.

WEEK-END POLITICAL SPEECHES 'Support contract' call by Ministers

BY JOHN BOURNE, LOBBY EDITOR

LABOUR LEADERS concentrated their week-end comments on the urgency of tightening the guidelines of the social contract.

Mr. Denis Healey, Chancellor of the Exchequer, warned the unions of the danger of the Government restoring its credibility if it allowed a settlement for the railwaymen far above the existing guidelines or the arbitration figure of 27.5 per cent.

A national rail strike would be disastrous, but it would be even more disastrous if the Government was seen to destroy its credibility.

Speaking on BBC Radio Leeds, Mr. Healey stressed the importance of getting a "firm guarantee" from the unions that wage demands in the next round of negotiations would be in keeping with a cut by half in the rate of inflation.

He said he was most encouraged by the TUC's discussions on a plan to achieve this.

In Cardiff, Mr. Michael Foot, the Employment Secretary, said the problems of inflation would not be solved by "battles" between the Government and trade unions. The key to success was to "build a link" between the industrial movement and the political movement that could never be broken.

"You cannot solve the problems of inflation by fighting a battle between the Government and the trade unions. The unions, the previous Tory Government tried that and it ended in the fiasco of the three-day week and the accompanying setback to British industry," he told the South Wales miners' annual gala.

"The only way in which you can solve inflation is with patience, courage and determination, seeking to ensure that you do retain full co-operation between the Government and the trade union movement of this country." It could not be done by statutory impositions nor by the Government "laying down the law."

He believed inflation could be overcome, despite the narrow majority in the House of Commons, and that most other countries had failed to do so without mass unemployment.

Mr. Foot said he did not dispute that trade unionists owed an obligation to their membership, but they also owed an obligation to the Labour Government and the country as a whole.

The Home Secretary, Mr. Roy Jenkins, told the Northumberland Miners' picnic that, unless inflation is brought under control, money will become meaningless and the "whole social fabric of decent living standards and protection for the weak will be at risk."

"We will see one after another of our valued institutions, public and private, driven into the ground and find it increasingly difficult to afford a railway system, the postal service, and schemes, valued private and public schemes, such as those for old miners' houses."

An injection of national self-confidence was needed—and could be achieved.

At the Scottish Miners' Gala, in Edinburgh, Mr. Ron Hayward, general secretary of the Labour Party, said the "inflationary surge" would limit Labour's plans to carry out manifesto promises and called on the unions to unite with the Government to fight inflation.

"The miners have always held a high position in the loyalty and comradeship of the Labour movement. Twice in recent years the whole Labour movement has united in the fight against those who sought to divide and rule," he declared. "Now it is time to remember our obligations and responsibilities to each other and to the wider unity of the movement of which we are part."

'London low pay' report

Some 20 per cent of manual workers in the City of Westminster earn less than £30 a week, according to a report on low pay published today.

"Average earnings for men in Westminster stood at £60.40 a week last year. At the same time one in five manual men earned less than £30 a week," states the report, from the Low Pay Unit.



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FT1

Heath still running for leadership

BY JOHN BOURNE, LOBBY EDITOR

MRS. MARGARET THATCHER and other senior Tories increased their attacks on the Government's economic policies during the week-end after the lull of the referendum campaign, but Mr. Edward Heath, her predecessor as party leader, also indicated in an article in the Sunday Express that he still regards himself as a possible leader of the party.

Besides discreetly reminding people of his triumphs at referendum campaign meetings, he recalled his question as Prime Minister in the February, 1974, election—do you want to be governed by the Government or the trade unions?

He commented: "Inevitably there are many people who believe the present economic slide could have been avoided if only people had come out in large numbers that February to back the measures that needed to be taken."

After Mrs. Thatcher had left the Welsh Conservative conference at Aberystwyth on Saturday, the conference discussed a motion criticising the failure of the Conservative leadership of providing new and aggressive policies and pointing out that there had been little sign of these policies on which Mrs. Thatcher had been elected.

Mr. Tim Mason, for the Federation of Conservative Students, said that when Mrs. Thatcher was elected there was a vague idea that she represented a new sort of positive and aggressive Conservatism and that she was going to change the direction of the party and the country.

"That idea is still vague," he said. "By the middle of April no leadership had come from Mrs. Thatcher."

While Mrs. Thatcher was at the conference, representatives were issued with pamphlets signed "Students for Edward Heath." They said: "Edward Heath—man of principle" and contended that the extent of

the mistake in changing him for Mrs. Thatcher was now apparent.

"In his place we have a politician whose election was shrouded in confusion, whose grasp of most fields of policy is extremely limited and whose ability to appeal to the working class lost vote is minimal."

"Above all, when the test of her leadership came in the referendum, she abandoned the work and the burden of the leadership of the party to the person whose qualities she had so recently derided."

Questioned at the conference, Mrs. Thatcher dismissed the idea of a coalition government. She also appeared to have little time for a period of statutory wage controls, although her foreign affairs spokesman, Mr. Reginald Maudling, said in Chislehurst, the same night: "Whether it be a wage freeze, whether it be a statutory wage policy, whichever form it takes, the Government must produce a policy as soon as possible. And if it is in the national interest, the Opposition must support it."

Obsessed

In her speech Mrs. Thatcher said the Conservative Party stands ready and willing to take the name of the whole nation.

Britain was drifting towards catastrophe. And now, while other countries were bringing their inflation under control our patience was being exhausted.

Sir Keith Joseph, Opposition spokesman for policy and research said at Oxford on Saturday that Britain's "borrowing requirement" is likely to be £13bn. "The so-called 'borrowing requirement', largely an euphemism for budget deficit, has been estimated by Mr. Healey at £9bn—an unpalatable sum, an unpalatable burden."

"But even this understates the likely figure by more than half again."

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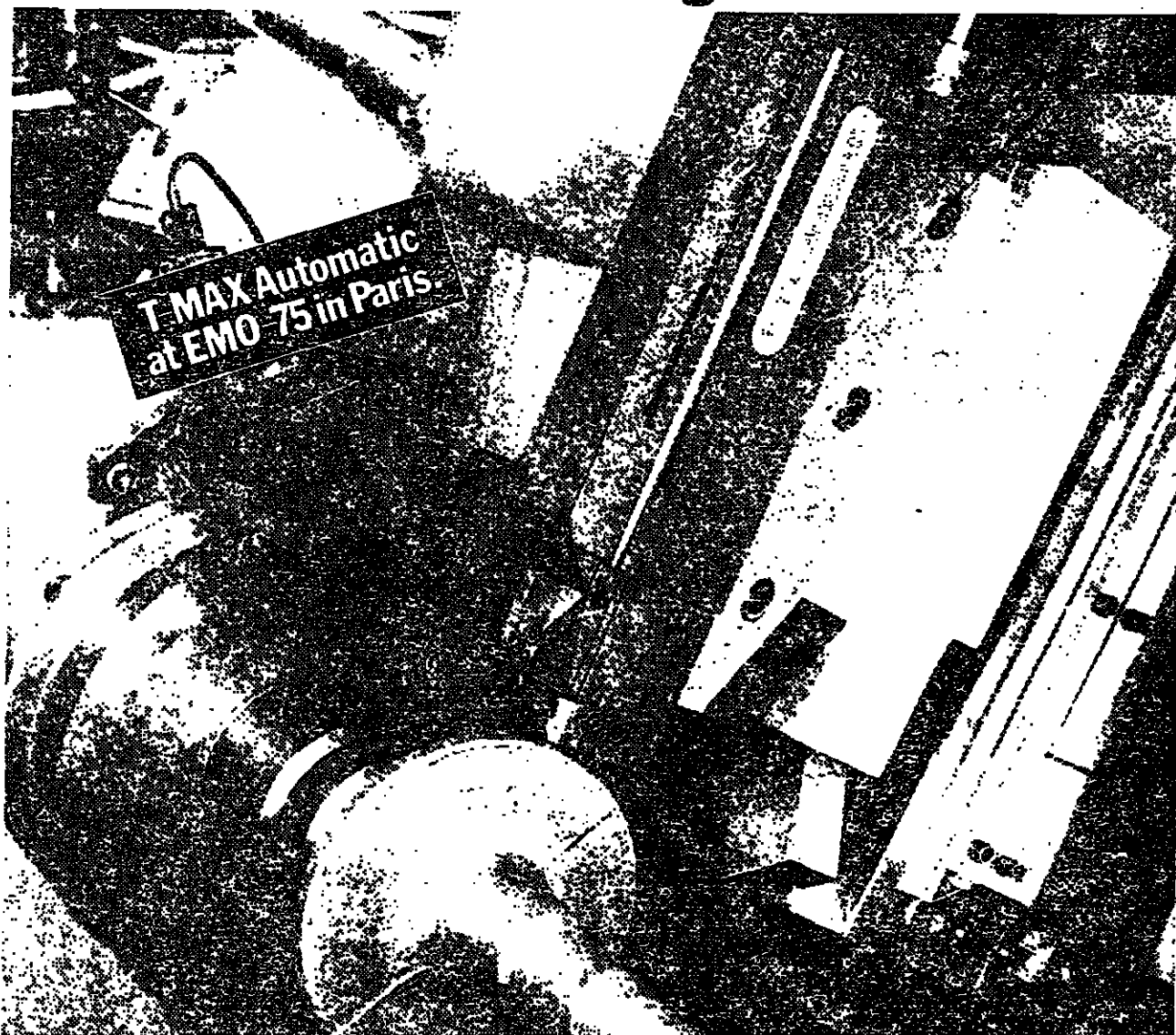
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Greece may try junta leaders next month

By Our Own Correspondent

ATHENS, June 15.

THE TRIAL of the leaders of the military junta which abolished democratic rule in Greece for seven years will be held in Athens before the summer is out, Minister of Justice Constantine Stefanakis said.

The trial will satisfy a public outcry for the punishment of those who ruled the country by edict. An authoritative source said that the trial, described here as the "Nuremberg" of Greece, will be held late in July or early in August, provided that by the end of this month the Supreme Court rejects the appeals by the defendants against the legality of their prosecution.

Twenty-one leading members of the junta have been remanded on high treason charges which entail a possible death penalty. The court heard that the junta, led by General Papadopoulos, the former army chief, overthrew the government in July 1973, and installed himself as President in June 1974. The retired General George Zolotas who served as Regent of the country during the period of the junta, also included in the charges, is the chief of the military police who overthrew Papadopoulos in November 1973, only to relinquish power to the politicians in July 1974. The defendants have claimed in their appeals that the takeover was a revolution which created its own legal status.

Security for Italian polls

ROME, June 15.

GUARDED by 120,000 armed police and troops, Italians today voted in regional elections likely to pull the country further left. The massive security was ordered to prevent repetition of campaign violence in which six people died and 200 were injured in clashes and bomb attacks in the past few weeks.

Railway stations, where 100 special trains brought home tens of thousands of Italian workers from surrounding countries to vote, were also under tight guard. About 40m. are expected to vote in the two-day elections for regional governments in 15 of Italy's 20 semi-autonomous regions. Governing bodies of 48 provinces and 5,345 municipalities are also being chosen. Reuter

Israelis bomb Lebanon after guerilla attack

BY OUR OWN CORRESPONDENT

TEL AVIV, June 15.

ISRAELI warplanes struck inside Lebanon for the first time in three weeks today following an Arab terrorist attack on an Israeli farming village nearby in which two civilians died and the four Arabs were killed by troops.

The attack, by the Iraqi-backed Arab Liberation Front according to security sources, is believed to have been timed to coincide with, and upset, the current efforts to reach another settlement between Israel and Egypt.

The air strike on the village of Kfar Shouba, long a staging point for cross-border guerrilla operations, could be seen and heard clearly from Kfar Yuvil, the Israeli co-operative settlement where the guerrillas struck shortly before dawn.

The Arabs were spotted by local civil guards, who drove the guerrillas to a house. The head of the family, held hostage inside the house, led the army commando storming operation two hours later and died from grenade wounds together with his brother-in-law who had been held inside. Six other civilians were wounded in the shoot-out. Before the army troops charged in, the Arabs had demanded the release of 12 prisoners imprisoned in Israel jails in exchange for the hostages' freedom. Among the names was that of Msgr. Hilarion Capucci, the Greek Orthodox archbishop of Jerusalem who is

serving a 12-year prison term for smuggling arms from Lebanon.

This was the first major Israeli incursion into Lebanon since last March, when a party of Al Fatah commandos landed on the Tel Aviv shoreline and waged a gunbattle with troops from inside a hotel.

The Tel Aviv raid came on the eve of Dr. Henry Kissinger's later abortive Middle East mission to forge an interim peace settlement between Israel and Egypt. The growing expectation of another Kissinger round following President Ford's meeting with the Israeli Prime Minister, Mr. Yitzhak Rabin and Egyptian Anwar Sadat, is regarded here as the probable provocation for today's operation.

Israeli correspondents reported from Washington today that Mr. Rabin made clear in his talks with Mr. Ford that Egypt could get back all of the two strategic Sinai mountain passes only in return for long-term pledges of non-belligerency. Otherwise, the Prime Minister was said to have insisted on Israeli retention of its early-warning reconnaissance installations atop the eastern approaches of the passes, although Egypt would be allowed to construct its own systems there as well.

Israeli correspondents reported from Beirut today that after the Israeli bombing, one woman was killed and three other persons, two of them women, were wounded. Commando sources here claimed that guerrillas shot down one of the Israeli jets, a U.S.-made Phantom.

One of the commando "rejection groups," the Arab Liberation Front (ALF), has claimed responsibility for this morning's attack on Yuvil in which four guerrillas were killed in a clash with Israeli forces. The ALF, in its statement, admitted the death of the commandos.

The ALF is supported by Iraq and is linked to the pro-Baghdad branch of the Baath Party. With the Marxist Popular Front for the Liberation of Palestine and the "General Command" it forms the "rejection front" opposed to a political settlement in the Middle East.

The rejection front had been expected to escalate action against Israel after a strong information campaign last week over the possibility the U.S. may renew its step-by-step diplomacy to bring about an interim settlement between Egypt and Israel in Sinai.

Leaders of the PFLP and the General Command have just completed talks with Libyan leaders in Tripoli on what observers here described as ways and means to scuttle the projected new American initiative.

Iran and Iraq sign treaty

By Robert Graham

TEHRAN, June 15.

AFTER THREE months of detailed negotiations Iran and Iraq have signed a "reconciliation" treaty settling all outstanding differences. The agreement, signed by the Foreign Ministers of Iran and Iraq in Baghdad over the weekend, now has to be ratified by the two Governments.

The treaty follows intensive work by committees and a series of ministerial meetings in the wake of the Algiers summit in March. At the Algiers summit, through the good offices of the Algerians the Shah met the Iraqi leader, Saddam Hussein, and the two leaders decided to undertake a major initiative to settle differences.

Thus, within a short time, Iran and Iraq have swung round from a situation of confrontation over the Kurdish issue to one of friendship. This new relationship was symbolised by the announcement over the weekend that the Shah had accepted an invitation to visit Baghdad.

Although for some weeks now the signing of such a treaty was a foregone conclusion, it will nevertheless have an important and immediate consequence. Stabilising relations, even though the two have totally different political regimes, will bring a new equilibrium to the whole Gulf. More particularly, it is expected that this will add new momentum to the efforts of the creation of a Gulf security pact.

FINN CABINET

By Lance Keyworth

HELSINKI, June 15.

President Urho Kekkonen has appointed a caretaker cabinet composed mainly of civil servants until a new Parliamentary government can be formed after the general election on September 21.22. This was the expected outcome after Premier Kalevi Sorsa's four-party, Left-Centre coalition resigned last before midnight on June 12.

The new Prime Minister is Mr. Keijo Linnamäe, a senior civil servant in the Ministry of Labour.

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Rabin says there is hope for a new deal in Sinai

NEW YORK, June 15.

U.S. SECRETARY of State Henry Kissinger and Israeli Premier Yitzhak Rabin held a final meeting here today and both made it clear later that they were in agreement on the immediate resumption of Dr. Kissinger's Middle East shuttle diplomacy.

Dr. Kissinger told reporters: "We have now fully clarified all the positions and the nuances of all the positions beyond any possibility of misunderstanding. The end of Mr. Rabin's talks with Dr. Kissinger and President Ford in Washington which ended amid guarded optimism that a new interim agreement could be worked out under which Israel will pull back its troops in the Sinai Desert in an agreement with Egypt."

But Mr. Rabin, in a TV interview immediately after today's talks at his hotel suite, said that both Israel and Egypt would have to shift from the positions they held last March. If there were to be any chance of a new interim agreement, the Prime Minister, who is due to hold another round of talks with Dr. Kissinger in New York today, defended Israel against charges of inflexibility for having turned down Egypt's terms during Dr. Kissinger's latest round of shuttle diplomacy.

Mr. Rabin said none of the dire predictions made at the time of Dr. Kissinger's last abortive round of negotiations had proved correct. The threat of war was even less now than it had been three months ago, the Suez Canal had been reopened—even in the absence of a further Israeli withdrawal—and the mandates of the UN peacekeeping forces in the Sinai and on the Golan Heights had been renewed.

In an interview released today by the U.S. News and World report magazine quoted him as saying Egypt had to negotiate on three basic issues if a new agreement was to be reached. These were: Duration: "We want to know what is the minimal period that a new agreement will stand."

Non-belligerency: "If the state of war is unchanged and Egypt claims all the rights of a belligerent power, we cannot give up our defence on the Mitla and Giddi passes in the Sinai."

Steps towards peace: "There must be some symbolic acts (by Egypt) to show that we are at the beginning of a movement towards peace."

Reporting from Washington the Israeli newspaper Haaretz said Mr. Rabin had agreed in his talks to withdraw troops in the area of the vital Mitla and Giddi passes. It said Israel was prepared to settle for a number of positions and advance-warning installations along the eastern exits of the passes into Sinai. The newspaper Davar reported, however, that Mr. Rabin told Dr. Kissinger Israel was prepared to withdraw at least half-way into the passes but not to give them up altogether.

Reuter

HUSSEIN PLANS MOSCOW TRIP

AMMAN, June 15.

KING Hussein of Jordan will visit the Soviet Union and Romania next week for talks with government leaders, foreign ministry sources said today.

In Damascus, Palestine Liberation Organisation (PLO) chairman Yasser Arafat held talks with President Hafez Assad.

Assad gave Arafat details of his recent talks with King Hussein. Assad and Hussein announced the formation of a supreme joint command to formulate plans on military and political co-operation.

Assad explained how he hoped the Palestinians, who are negotiating a similar union with Syria, can be accommodated in the Syrian-Jordanian alliance, sources said.

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'Turkey threatens to close U.S. bases'

By Metin Munir

ANKARA, June 15.

TURKEY has decided to implement counter measures against the U.S. arms embargo including the dismantling of American bases here and the review of Turkish-American defence agreements, political sources said here today.

These measures will be discussed at a special session of the national security council, Turkey's top advisory body, tomorrow and at a Cabinet meeting later the same day, the sources said.

They expected some of the nearby U.S. bases in Turkey to be ordered closed within four months.

The U.S. arms embargo was imposed by Congress last February despite strenuous opposition by the Pentagon Administration to put pressure on Turkey over Cyprus.

Turkey countered by announcing that it would sever its defence ties both with the U.S. and NATO but until now refrained from taking any action. There was hope, which is apparently now abandoned, that the U.S. Administration would convince Congress to restore arms sales and grant Turkey.

"Turkey is in no need of those who have no need for it," Prime Minister Süleyman Demirel told a Press conference here today. He summed up the achievements of his right-wing coalition in months in power.

Defence with those of its friends who are determined not to abandon it. He charged the U.S. with the unilateral violation of its agreement both with Turkey and NATO.

The United States is giving or selling to 90 states but we, who have been a loyal and self-sacrificing ally for 35 years, cannot buy American arms even with our money," he said. "This is hardly a friendly attitude."

He expected NATO to fill the gap made by the embargo and that Turkey could maintain its obligations to the alliance.

Turkish-American relations, which sustained a severe setback with the embargo, will certainly deteriorate further when Turkey launches its counter measures but it is not known how extensive these measures will be. It is likely that those of the U.S. bases which make the least contribution to Turkey's defence will be dismantled first.

American bases here include a large air base in South Eastern Turkey and many sophisticated radar and monitoring installations on the Black Sea coast and in the east close to the Soviet border.

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OVERSEAS NEWS

U.S. bid for new nuclear controls

BY PAUL LEWIS, U.S. EDITOR

WASHINGTON, June 15.

THE U.S. is now attempting to negotiate new safeguards on the sale of civilian nuclear plants with Britain and other nuclear exporting countries, in order to prevent third nations from building atomic weapons of their own.

In particular, the U.S. wants to ban or tightly control the sale of uranium enrichment and fuel reprocessing plants, which can provide the purchasing country with a source of fissile material suitable for use in nuclear weapons.

As part of this plan, it has suggested the construction of a series of regional plants around the world for the reprocessing of fuel from civilian reactors. These would be under international control and would keep a tight check on the plutonium and other fissile material produced in the operation. However, there is some doubt as to whether this scheme would be economically viable in the foreseeable future. An alternative approach, which seems to be preferred by the British is for countries exporting nuclear reactors to undertake to do the fuel reprocessing themselves.

American concern about the spread of nuclear technology particularly in the developing world, has greatly increased since the Indian explosion last year. But it has been given new impetus by the West German Government's decision to sell Brazil not only nuclear reactors but also the enrichment and fuel processing plants as well.

Don Juan rejects Franco's succession

MADRID, June 15.

THE PUBLIC rejection by Don Juan de Bourbon, head of the Spanish royal house, of the order of succession imposed by General Franco, caused surprise here today.

Don Juan put himself forward as the monarchist alternative of Spanish opposition groups to his son Prince Juan Carlos, who has been designated by General Franco as his heir and future king and who is generally considered more liberal than his son.

The challenge from Don Juan came at a dinner given in his honour by a group of Spanish dissidents in Lisbon last night. Initial reaction among moderate opposition politicians here was that Don Juan's position would only make Spain's transition to democracy more difficult. "A dynastic squabble is the last thing we want," one said.

Their feeling was that under the order of succession, already accepted by the Spanish army, would only delay the advent of democracy, which the prince is expected to promote once he is in power.

Twenty dead in Rhodesia fighting

SALISBURY, June 15.

THE KILLING of 20 Africans in a clash between nationalist guerrillas and Rhodesian security forces remained a mystery today, with no official comment forthcoming from government sources here. What has still to be explained is whether the dead Africans were guerrillas or villagers caught in crossfire in last Thursday's shooting.

Yesterday's official communiqué on the incident did not state—as is normal on these occasions—that the dead were guerrillas. And there were no official reports here today that none of those killed was in fact a guerrilla. The reports said that one guerrilla was wounded and that all those who died were villagers.

The communiqué issued by the security forces said that an army patrol had gone to the scene of a village headmen who was being beaten up in the

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Kennedys 'may have link' with CIA plots

WASHINGTON, June 15.

VICE-PRESIDENT Nelson Rockefeller suggested today that President Kennedy and his brother Robert might have been involved in assassination plots by the Central Intelligence Agency (CIA) against foreign leaders, but he said he had no conclusive evidence of this.

Mr. Rockefeller, who headed a high-level commission that made a five-month investigation of CIA activities, said in a television interview: "I think it's fair to say that major undertakings by the CIA were done without either knowledge or approval of the White House."

He said that the published sections of his commission's report did not deal with alleged assassination plots because the commission's investigators could not get enough information to justify

conclusions and recommendations. "Many of the people have died who were allegedly involved and others were assassinated in this country," he said.

Pressed to elaborate, he said: "We have no conclusive information but the President of the United States and the Attorney General of the United States were both assassinated."

Mr. Rockefeller was obviously referring to how the deaths of the Kennedy brothers made it more difficult to uncover evidence, although he did not mention them by name.

Numerous press reports have told of CIA involvement in plots against Cuban leader Fidel Castro, former Dominican Republic leader Rafael Trujillo and others.

Smith regime warns of 'austerity year'

BY TONY HAWKINS

SALISBURY, June 15.

RHODESIANS have been warned by Finance Minister John Wrathall to expect a period of austerity lasting until the second half of next year. In a week-end statement Senator Wrathall attributes this to the world recession, transport problems in Southern Africa and "various pressures" which have been a consequence of the political situation in Southern Africa.

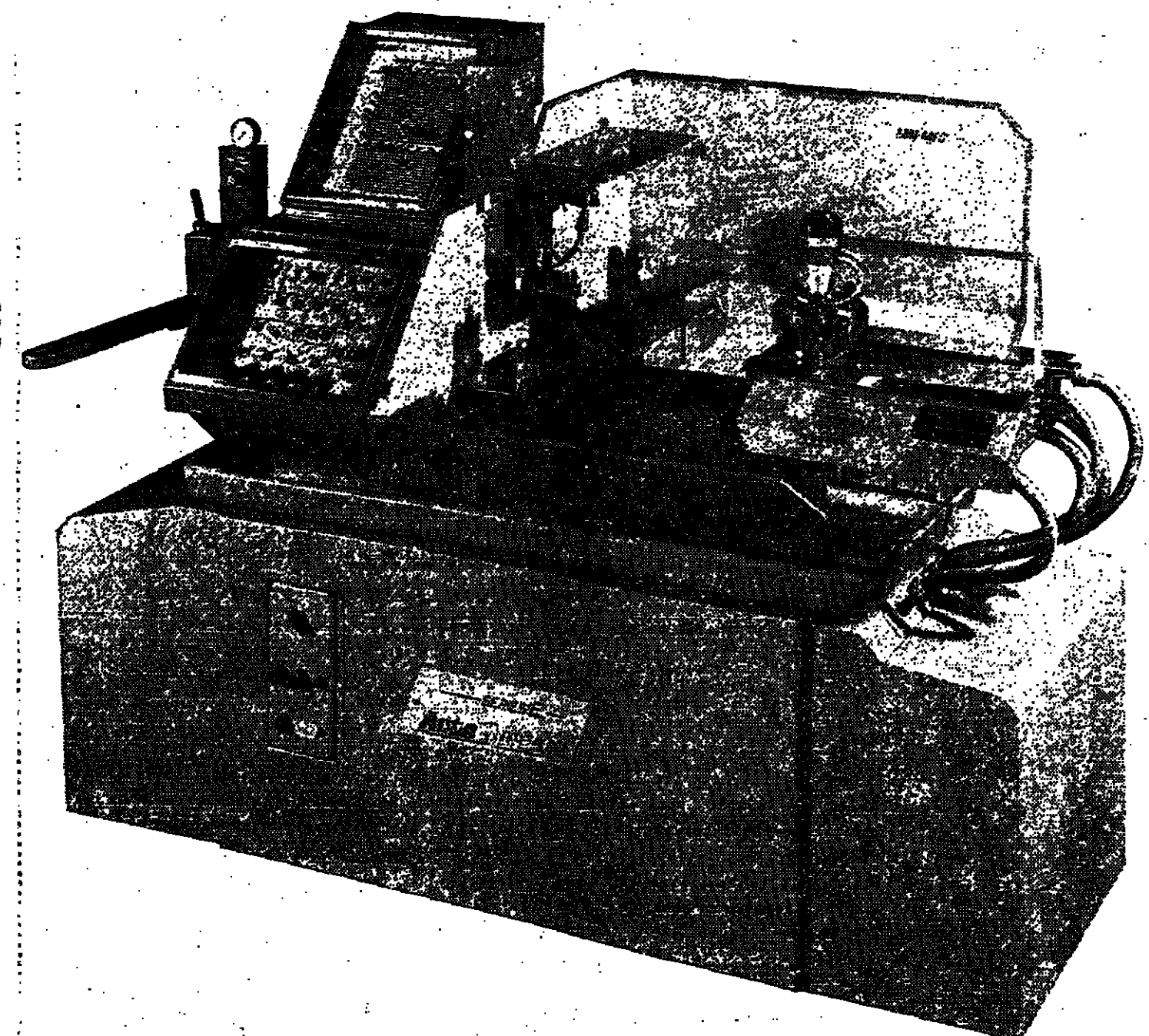
The Minister said that it was "common knowledge" that foreign currency allocations for the first half of 1975 had been "drastically reduced" compared with the second half of last year.

Rhodesia had been adversely affected by the oil crisis and subsequent recession in the Western world and prices for Rhodesian exports had been depressed. At the same time prices for finished goods from the industrialised world remained at high levels.

A substantial volume of Rhodesian exports which should have moved at a time when prices were high were delayed and only began to move after prices started to decline.

Mr. Wrathall said that as a result a "severe" reduction in imports in 1975 had been necessary. The Minister warned that the lower level of foreign currency allocations for imports in the second half of this year and the priority that must be

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Bankruptcies among Japanese companies reached a record total last year. Dick Wilson explains why

Japan: a boom landed on the rocks

ONE MORNING last October president Yoshihiro Miyata of Yashica, the camera maker, called his men's representatives together and told them: "Yashica's life is like a candle lit before a storm. If things go at the present pace, the company will go bankrupt on October 31."

His story is no longer an uncommon one in Japan, where last year's bankruptcy cases totalled 11,681, counting only cases where the liabilities exceeded ¥10m. (\$33,000), with aggregate debts outstanding of \$5.5bn.

This was double the previous record established in 1968, and gives a measure of the severity of the recession which Japan has been experiencing, as well as of the rationalization into which Japanese business has been forced.

The list of bankruptcies exceeding \$10m. ran to 50, and the two companies at the top of the league owed more than \$200m. and \$100m. respectively.

The story of failures has continued into this year, the outstanding examples since January being Yaesu Tsusho (a car parts trader), Hokuriku Machinery (textile machinery), Okuda (umbrellas), Yamazaki Teikokudo (drug manufacturers) and Marubishi Shokuhin (canned fruits).

Peak

It appears that the peak may have passed in April, when the figure reached 930 cases involving debts of \$370m., since this was lower not only than the previous month but also lower than the previous April.

The most vulnerable firms in this shake-down in Japanese business have been in construction and real estate, which between them account for 40 per cent. of the total. The textile mills, followed by electrical machinery and general machinery, have also done badly.

One factor which is apparent in many of the recent bankruptcies is speculation in land, which had been encouraged by the ambitious and unsuccessful proposals by the previous administration of Prime Minister Kakuei Tanaka for the remodeling of the Japanese archipelago. During the 1970s the boom in real estate provoked by this overreached itself, and some of the companies which ultimately collapsed were found to have unwisely dabbled in land. This was true of Tokyo Tokei Seizo, the watch and

clock maker, as well as Yamato Woollen Textile and even Omi Brotherhood.

Omi Brotherhood created a stir because it had been endowing Christian mission and charity work in Japan from the sale of mentholatum, and its bankruptcy at the end of last year put a stop to much of the work which it had made possible. But good motives did not excuse bad management.

Promising

Even three of the promising small firms which had been helped by the Small Business Investments Company failed, casting a slight cloud on the methods of Japanese management. But at least it can be said that last year saw only four bankruptcies of companies listed on one of the Japanese Stock Exchanges. These were Nihon Netsugaku, Yamato Woollen, Tokyo Tokei and Sensee Seisakusho.

Almost all of these firms had gone through the progressions of collapse, beginning with the laying-off of labour, the cutting of salaries, the advancement of retirement, and other devices to cushion the crisis. With a traditional concern for labour relationships and lifetime employment, some firms in Japan have made temporary layoffs of labour on the basis of paying anything between 60 and 95 per cent. of full wages and retaining the contract intact against a hoped-for early resumption of work.

But in the end all too many enterprises have had to close down. It is interesting to see on what basis some manage to survive and others do not. The Government and the Industrial Bank of Japan would not allow Chisso to go bankrupt, because if it had done so the payment of compensation to the victims of the dreaded Minamata pollution disease would have been suspended and there would have been a political backlash. In most cases it is the creditors, particularly the banks, who decide which enterprise is to be bailed out and which is to be left to die.

The Sanwa Bank saved Okuraya K.K. last year, but abandoned Nippon Kaihatsu. Both were real estate firms, and both could have been among the 916 cases of bankruptcy in real estate. Nippon Kaihatsu had bought a lot of land during the 1971-72 land boom, but then had to face the credit squeeze which followed the oil crisis at the end of 1973. Its president sought help from the

Sanwa Bank, which pumped in \$3.2m. during the period March to June 1974.

Mountainous

But the Bank then discovered that a considerable amount of the company's land was mountainous, and that a large number of its promissory notes was in circulation and had to be redeemed. Nippon Kaihatsu account for about half the was declared bankrupt in July total bad debts. During the 1965

ing director of Hayashi Spinning in order to perform the same function. But Daishin Spinning and Tokai Rayon both closed last autumn under the pressure of the bank. Daishin turned itself into a real estate firm.

The banks are the dominant actors in the crucial decision to declare bankruptcy or not. In the current wave of business failures they appear to be redeemer. Nippon Kaihatsu account for about half the was declared bankrupt in July total bad debts. During the 1965

brink of bankruptcy? "Every October and November, and a city bank now has about 10 borrowers on the border of bankruptcy," a bank executive in Tokyo remarked a few weeks ago. "We can't simply let them go under." Yashica, the camera maker, and Toyo Kogyo, the car manufacturer, are perhaps the two most dramatic cliff-hangers of recent months.

Toyo Kogyo saw its share of the domestic car market deteriorate from just over 8 per cent. three years ago to 6 per cent. last year, and it was then sent reeling by the setback to its rotary engine project. By last October it had borrowed \$860m. in the effort to keep going, and a quarter of this huge debt was owed to two Sumitomo banks.

Humiliation

At the beginning of this year the firm had to close some of its plants. But the Sumitomo Bank and Sumitomo Trust and Banking Company provided \$50m. for Toyo Kogyo's April shortfall. Two highly respected businessmen, Mr. Shigeo Nagano (chairman of Nippon Steel and President of the Japan Chamber of Commerce and Industry) and Mr. Koji Asai, a director of the Sumitomo Bank, became advisers to Toyo Kogyo, which is now undergoing the humiliation of selling land and stocks and cutting salaries in the endeavour to remain afloat. It is generally believed that the Sumitomo banks feel that they have put too much money into the concern already to let it fail at this stage, quite apart from the appalling effects which this particular failure would have on employment.

President Miyata's emotional address to the Yashica union in October was precipitated by the decision of its two biggest stockholders, Taiyo Kobe Bank and Nishio-Iwai (one of the shosha) to discontinue their financial assistance. The workers at the main factory agreed to the shut-down proposals by the management, but the union at another plant, which the management planned to sell to Fujitsu, the computer manufacturer, under its reconstruction programme, refused to accept them.

Emergency

At the very last minute the bank and Nishio-Iwai changed their minds, sending a new president to take over Yashica's operations, and pumping in emergency funds. Yashica had to face bills of \$3.7m. during

JAPAN'S LARGEST BANKRUPTCIES IN 1974

Company	Liabilities in \$ Million
Sakamoto Besski (Osaka, spinner)	211
Nihon Netsugaku Kogyo (Osaka, air conditioning)	113
Nippon Kaihatsu (Tokyo, real estate)	86
Aeromaster (Asaka, air conditioning)	62
Irimaru Shoji (Nagoya, machine tools)	57
Orient (Tochigi, cabinetmaker)	49
Matsushita Kaihatsu (Osaka, real estate)	36
Sanyo Busan (Kanagawa, real estate)	34
Wiyata Toshio (Tokyo, real estate)	34
Fudogumi (Saitama, construction)	31
Ryokufu Kogyo (Osaka, golf links)	31
Saeki Construction (Osaka, construction and real estate)	29
National Mahobin Kogyo (Osaka, Thermos)	29
Tokyo Tokei Seizo (Kanagawa, clocks)	28
Amijirushi Shokuhin (Tokyo, food manufacture)	24

last year with debts of \$86m.

Okuraya K.K. got different treatment. It stands among the larger real estate firms, and ranked third in terms of sales in 1973, with a total of \$170m. But it found itself at the end of 1973 having borrowed \$120m., and the Sanwa Bank was called in. In this case the land was developable, and besides that Okuraya was the largest real estate company under the Sanwa Bank aegis, with mutual links going back for at least five years. In these circumstances the bank sent in its own adviser to replace the founder-president of Okuraya to guide it back to recovery.

Selectivity

A similar selectivity has applied in the textile industry where the Tokai Bank has had the deciding voice, at least in the Nagoya region. The Tokai Bank has a "Textile Company and Sakamoto Spinning. Ten Diagnosis Team" which had been very active in 1970 during the textile recession, when the bank's selected lending houses. This collective blow prompted some key mergers. Now the same team has been active again. Its former head, Teruji Ito, left the bank to become president of Aichi Spinning and successfully reconstructed it some five years ago. Now he has been made man-

agement director of Hayashi Spinning in order to perform the same function. But Daishin Spinning and Tokai Rayon both closed last autumn under the pressure of the bank. Daishin turned itself into a real estate firm.

Ratio

But the other creditors are also important. These are very often the trading houses or shosha—Mitsubishi, Daiichi, Sumitomo, C. Itoh and the rest. Last year the ratio of bad debts in the shosha's lending usually ranged between 0.02 per cent. and 0.07 per cent. Only Toyo Menka departed from this range, with the astonishingly high ratio of 0.5 per cent., or ten times bigger than the others. This was because of the single bankruptcy of Sakamoto Spinning with liabilities of \$32m.

The shosha have become more cautious of late, except perhaps the rest. Last year the ratio of bad debts for the example of Toyo Menka departed from this range, with the astonishingly high ratio of 0.5 per cent., or ten times bigger than the others. This was because of the single bankruptcy of Sakamoto Spinning with liabilities of \$32m.

These are the companies which have disappeared. What of the ones which hover on the

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The Ordinary General Meeting on 12th June, 1975, has resolved to distribute a dividend of DM 8.50 for each share of DM 50 nominal value for the financial year 1974.

The dividend will be paid from 13th June, 1975, onwards, after deduction of 25% capital yield tax, against submittal of dividend coupon No. 30 at one of the paying agents listed in the Federal Journal No. 106 dated 13th June, 1975.

In accordance with the English-German Double Taxation Agreement of 26th November, 1964, as amended in the audit report of 23rd March, 1970, the German capital yield tax is reduced from 25% to 15% for shareholders resident in Great Britain. To claim this, shareholders must submit an application for reimbursement within 3 years from the date of the dividend payment. This application is to be addressed to the Bundesamt fuer Finanzen, Koblenzer Strasse 63-65, 53 Bonn/Bad Godesberg.

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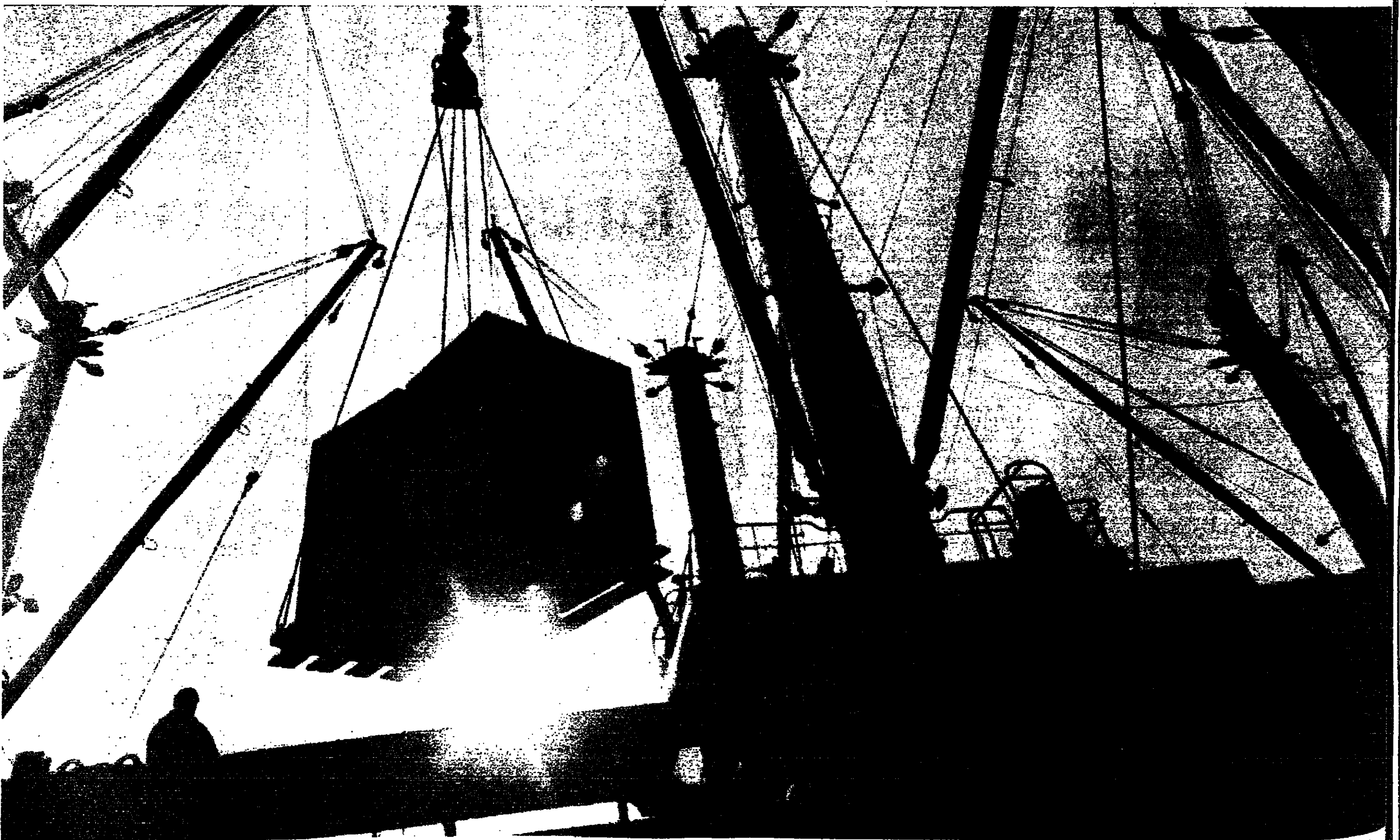
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Lethargy in energy saving

BY JOHN TRAFFORD

IT IS NOW twenty months since the energy crisis hit the Western World yet there is still little sign of the British Government taking effective action to cut down the nation's fuel consumption, part of which goes to heating, ventilating and lighting offices.

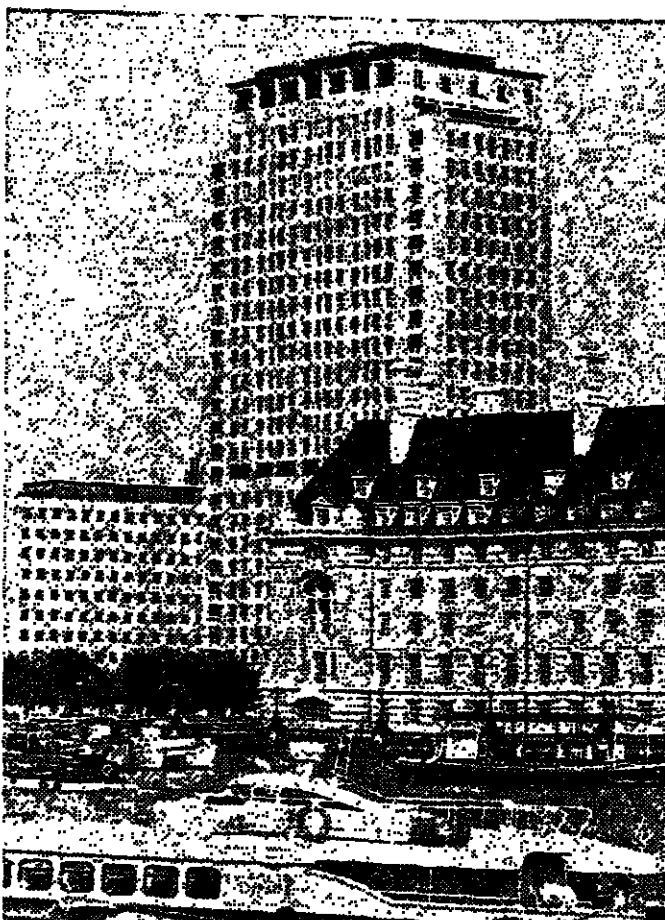
Britain is not just slow to react. It also starts its energy-saving campaign well behind the more advanced countries of Western Europe. At present the U.K. consumes nearly half the energy of the six original EEC countries whose population is 3½ times greater—a shocking performance born of years of cheap energy supply and a hesitation to alter the building designs and building methods of the past.

The manager, faced with trying to hold down the rise in office overheads, can be excused for thinking that he has seen precious little reason to cut down his energy consumption other than the steep rise in energy prices themselves.

Most of the progress to date has been by individual companies which have not waited for a lead from Whitehall but have invested senior executive time in their own cost-cutting programme. The best published to date have been the efforts of Marks and Spencer. The company cut its energy consumption by 15 per cent. In 1974, a saving of £500,000. It started an in-company campaign with "Switch It Off" stickers and other means to make employees alive to the importance of saving energy; it re-examined heating and lighting levels in its stores; and it set up an Energy Conservation Team in every store and at head office with the responsibility of maintaining, and if possible increasing, the initial savings.

Other companies, among them Shell at Shell Centre in London, have made inroads into their office energy consumption. Some believe that it is best for each company to work out its own solution to the challenge of energy conservation. However attractive such sentiments may appear, they are clearly not shared by the Government or many other people whose job is directly affected by inefficient energy use.

So far, apart from a £1m. publicity campaign on energy saving launched in January and another which began just eight days ago, the Government has only taken two measures which could have a direct bearing on energy conservation—apart from the policy of allowing energy prices to rise.



Shell has made inroads into energy consumption at Shell Centre

One was the requirement to restrict office temperatures to a maximum temperature of 20 deg. C (68 deg. F), the other a modest £3m. low interest loan scheme to help companies with energy saving plans but insufficient resources to implement them.

The measures were announced by Mr. Varley, the then Secretary for Energy, last December as part of his £100m. a year energy savings package but few people believe them to be anything like enough. Various other activities are under way which may, or may not, yield results. The Think Tank produced a report on energy saving last July. An Advisory Council on Energy Conservation was announced in July and set up under the chairmanship of an academic, Professor Sir William Hawthorne, in October to advise Mr. Varley. Then, early this year, NEDO published a study on where people's power supplies come from and where they go. It concluded that business was capable of substantial savings in energy for a relatively small outlay.

Finally an Energy Resources Subcommittee of the House of Commons Select Committee on Science and Technology was set

pays the electricity bill. Furthermore, he knows he cannot recover the cost of an additional energy-saving outlay with a sufficient increase in rent.

Here harsher regulations could have a useful impact but the same could not be said of existing buildings. Mr. Jones points out that there are just not the district surveyors and building inspectors around to make a thorough job of enforcement.

For existing buildings he would like to see the Government offering a series of financial carrots aimed at helping the company which invests in energy-saving equipment. His proposals include grants, tax allowances, subsidies on insulation materials, and an adjustment to the rating system so that energy-saving improvements do not increase the rateable value of the premises.

The first three suggestions could be applied either to developers or to occupiers, depending on who did the work. The second and fourth are perhaps particularly apt. Mr. Jones points out that a company can charge the whole of its energy bill against tax (as part of its regular running expenses) but has to treat the installation of insulation as a capital item, to be depreciated over a period of years. With local government expenditure nearly out of control, anything which shielded the office employer from higher rateable values would be very well received.

His fear, like that of many others anxious to cut the nation's fuel bill, is that suggestions of this kind will take so long to pass through the Whitehall and Westminster machinery that precious years will be wasted.

This is not to say that Mr. Jones expects all the initiative to come from the government. "Architects have a part to play, designing buildings with no more than the necessary area of glass so that heat losses and heat gains are not excessive. And large savings can be made by a more sophisticated control system so that unnecessary lighting, heating or ventilation is switched off."

In his view many an office manager lives in a world of false economies where every effort is made to cut capital spending to the bone even if it results in a large increase in annual running costs. The Government can play a big part in changing these attitudes but in the end the battle will be won or lost in the boardroom or the manager's office.

OFFICE IDEAS

JOB ENRICHMENT IN A CIVIL SERVICE SETTING
L. R. Comer + S. J. Musio in *Public Personnel Management* (USA), Jan./Feb. 75: p 49 (\$4 pages, tables)

Describes the application of an experimental job enrichment programme to clerical workers in the selection division of the City of Minneapolis's personnel department, and reports increased job satisfaction and improved performance, but no significant change in absenteeism.

CATERING EQUIPMENT
A. Collins in *RIBA Journal* (UK), Feb. 75: 41 (\$4 pages, illus., table)

A two-part article, the first describing equipment for the reception, storage, preparation and serving of food, and for the cleaning of dishes and utensils, the second looking at selection criteria.

THE SOUTH WESTERN ELECTRICITY BOARD OFFICES
J. Worthington in *The Architects' Journal* (UK), 12 Mar. 75: p 55 (2 pages, illus., charts, diag., tables)

Well-written and carefully researched, this is an assessment of one of the U.K.'s pioneer office buildings, now occupied for 3½ years. There's much that's out of the ordinary about this building: it was conceived when the chairman came back from the U.S. where he had seen the principle of heat recovery in action ("Integrated environmental design" started here). Continental office landscaping was adopted but with a difference—no standards, no compulsion, leave it to the staff. How it worked out, what happened (including sabotage, though the word isn't used), satisfaction and grumbles now, even the fact that management now feel they themselves should have opted for the open floors.

BUROLANDSCHAFT REVISITED
P. Duff + C. Cave in *The Architects' Journal* (UK), 26 Mar. 75: p 66 (10 pages, illus., diag., table)

An appraisal of the impact the landscaping concept has had on attitudes to office environment. In retrospect, sees the pioneers' emphasis on the communications aspect as an oversimplification, and is (now) unhappy with the "bigger-the-better" approach; seems to share the fear that large spaces may become redundant when automation scales

down office employment to "thinkers" only. Points to the connection between OL and egalitarianism—but believes this mellowing once a building is occupied. Considers the stimulus OL has given to design, particularly furniture design. Believes we have come to the end of "simple landscaping" and to the beginning of a more complex period in office design.

THREE OLDER OFFICE BUILDINGS
C. Cave in *The Architects' Journal* (UK), 19 Mar. 75: p 627 (6 pages, illus., diag.)

An assessment of three older office buildings: the Lever Brothers building, Port Sunlight (1895); the Norwich Union's Surrey House (1906), and Imperial Chemical House (1929)—the common denominator being continuous and continuing effective use of office space, due (in the author's opinion) to the initial design of the shell which permits a variety of space utilisation approaches.

OFFICE LANDSCAPING: TEN Qs AND AS
H. Remick in *Büro + EDV* (Fed. Rep. of Germany), Jubiläumsschau 74: p 16 (34 pages, in German, English version available)

The author (who claims to have been involved, over 15 years, in more than 60 office planning exercises) answers questions put to him, such as: "Staff told to move into an office landscape are sceptical: does that attitude change with acclimatisation?" "Who should continue to have a claim to a separate office?" and "Is landscaping dearer or cheaper than conventional offices?"

ARE JOB DESCRIPTIONS REALLY NECESSARY?
D. E. Britton in *The Personnel Administrator* (USA), Jan. 75: p 47 (24 pages)

Argues that job descriptions are neither useful nor necessary in conducting job evaluation, performance evaluation, organisation analysis and control, or recruitment—in fact, they are of no real value to anyone. You may have a sneaking suspicion that he might be right.

A PERSONNEL EVALUATION TECHNIQUE
J. R. Searles in *The Personnel Administrator* (USA), Jan. 75: p 50 (3 pages, table)

Describes a programme aimed at identifying and taking action on people at the top and bottom ends of the performance spectrum, and cites improved performances achieved by its use in Honeywell Information Services.

These summaries are condensed from the abstracting journals published by Anbar Management Services. Readers wishing to consult original texts should write to P.O. Box 23, Wembley HA9 8DJ (Telex 935779), or to the individual magazines.

OFFICE PRODUCTS

Hoechst tackles Xerox and IBM

BY ROY LEVINE

"IF THE company can develop all three of its products successfully within the next five years, we would consider it to represent a model of what the ideal office equipment company of the late 1970s should look like."

The three products are a plain paper copier, an editing, typewriter and a facsimile transmission device. The company is Savin Business Machines Corporation of the U.S. and the comment was made by a New York stockbroker.

On this side of the Atlantic Kalle Infotec, a mirror operation of Savin, has been set up by the German giant, Hoechst.

It is a wholly-owned subsidiary with operating headquarters in Wiesbaden and is essentially a marketing company.

This deliberate strategy, involving trading agreements with Savin in the U.S. and Ricoh in Japan, gives a small company the opportunity of making an enormous return on capital without becoming involved in the high costs of research and development and tooling for manufacture.

The danger of that approach in the long term is that the trading agreements are withdrawn or changed, leaving the company with an expensive sales team with no products to sell. Precautions also need to be taken that the R and D of the manufacturing firms are adequate to cope with the pace of obsolescence in each product area.

Hoechst has gone into the venture because it recognised the potential of the office equipment market and had the technology to compete with Xerox, the giant that dominates the world markets in one sector.

The three products that Savin and Hoechst have settled on are not related. But on a superficial analysis it is easy to see why it chose them. The other main growth sectors in the office equipment market can be eliminated for varying reasons: the dictating equipment market is too heavily penetrated; calculators have become too competitive; and computers require too much capital.

On the other hand the editing typewriter and facsimile transmission markets in Europe are still embryonic.

The plain paper copier market offers opportunities to Hoechst because of its experience in the photoconductor field. The key to Hoechst technology is that it uses an organic photoconductive belt rather than an inorganic photoconductive drum as in Xerox equipment.



Mr. Ken Barge

This technology is the foundation for the Kalle Infotec 1000 which is made in Japan by Ricoh and marketed in the U.S. by Savin. The trading agreement between the three corporations gives Kalle Infotec exclusive right to market other office products made by Ricoh and Savin or its associates in the U.S. It benefits Ricoh by enlarging its production volume and allows Savin and Kalle Infotec to concentrate on marketing.

The research and development of the typewriter—priced at half IBM's before the introduction of the IBM Memory Typewriter—was done by Arthur D. Little under an agreement which gave Savin exclusive world-wide rights to manufacture, sell and sub-license in exchange for royalty payments.

Savin has contracted the manufacture of the machine to Hazeltine Corporation, which builds the machine around the IBM Selectric Typewriter. The main feature of the system is its buffer memory that allows the typist to edit the copy before it is recorded in the magnetic tape cassette. In Britain it is called the Kalle Infotec 7000.

Savin and Columbia Broadcasting System together own Rapifax which has developed a facsimile transmission machine, built by Ricoh, which can transmit a message in under one minute, thus opening a new market sector for high volume transmission. In the U.K., this

base quickly to get into the black."

Mr. Barge is reluctant to state what resources Hoechst has put behind the effort. Equity capital is just under £2m. and there is a substantial but undisclosed amount of loans. The total investment in the U.K. could grow to £30m. by the end of 1977.

That seems a lot of money to support what the company hopes will be its gross income at the same date. Even so, the real pay-off could come in the ensuing years.

The management has some ambitious targets: a quarter of the total automatic typewriter market by 1977, a third of the facsimile market and one-tenth of the copier market.

It is obviously too early to judge the success of the company's marketing efforts and there are no objective figures to show its penetration.

Mr. Barge claims to have established an installed base in copiers of well over 1,000 machines in two years and to be second in new installations to Rank Xerox in a field of over 20. He is even holder in his claims for the Kalle Infotec 7000 Text Editor which has been on the market for just under a year. "We are installing more units per month than anyone else," including, of course, the ubiquitous IBM, reckoned to have over 80 per cent. of the U.K. automatic typewriter market.

In facsimile transmission there is no modesty at all. Mr. Barge claims that since bringing the fast transmitter to the market last August over 100 machines have been installed and the rate of new installations is the fastest in the country.

The faster Infotec 6000 can give economies even though its rental prices starting at £95 per month are more than twice the average for competitive products. But in this Eldorado, Kalle Infotec could face resistance now that many of the six-minute facsimile machines are compatible between brand names.

Overall, unless Hoechst is prepared to throw unlimited resources into the market, it seems that Kalle Infotec's chances of becoming the "Third Force" in the office equipment market, after IBM and Xerox, are slim.

"Because of the sheer size of the technology and capital required, only the big companies will stay the race—in five years' time perhaps there will be only three or four companies left," says Mr. Barge. Will Kalle Infotec be one of them?

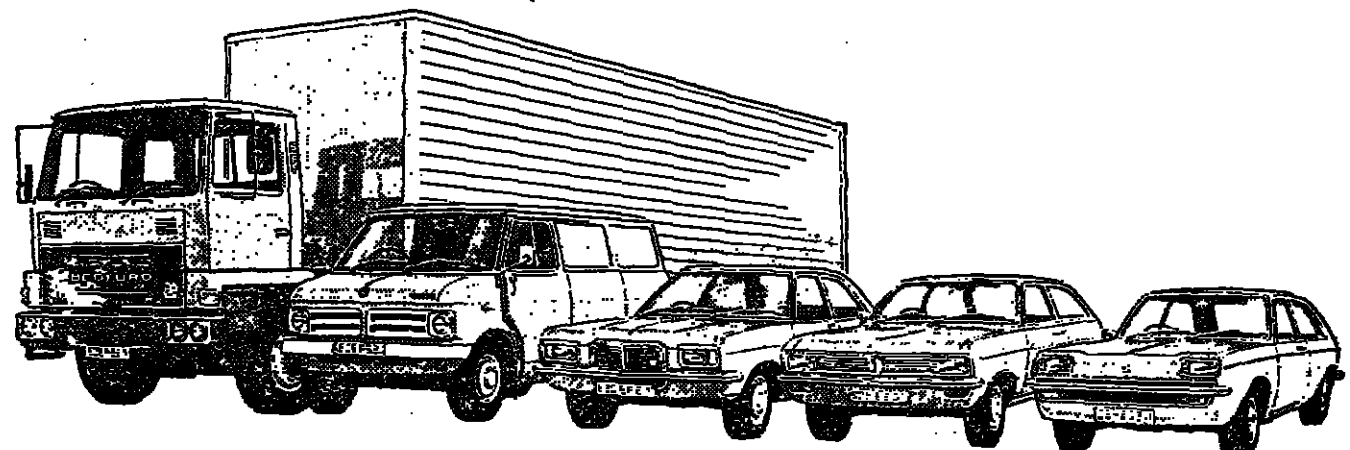
U.K. growth

Over the past two years Kalle Infotec has opened six branches in the U.K., employed some 500 people, mainly sales staff, and conducted an aggressive advertising campaign including television promotion.

"They have saturated the field with salesmen yet the markets are not yet ready for the hard sell—there is still an educational role to play before gaining grass roots acceptability," comments a rival.

Kalle Infotec admits it is in a hurry. "Mr. Kenneth Barge, managing director, says, 'We need to reach a certain volume of sales to recover the outlay before there is any question of obsolescence. Also, because our products are installed mainly on a rental basis, we need a

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Building and Civil Engineering

John Laing looks ahead

MUCH GREATER involvement in overseas activities by John Laing can be expected following today's announcement that the Group has set up a new subsidiary company to be known as John Laing International.

As just announced in its annual report the Group's turnover in 1974 was £248m. and the overseas share of this was 16 per cent. This year, overseas turnover is expected to be well over 20 per cent of the total for 1975.

With prospects not so bright at home, but glittering opportunities manifest overseas, especially in the Middle East, Laing is pinning great hopes on the new company which will have the Group's chief executive, Mr. C. F. Parsons as chairman, with Mr. J. W. Charnley as deputy chairman and Mr. J. M. Watt as managing director.

John Laing International makes its debut with some big jobs in hand and much bigger ones looming up.

Laing is already very much occupied in Spain and can now be included among the largest in the construction business in that country. One of its latest ventures there is its involvement in the toll motorway concession in which it is a partner.

Now it is about to start work on a substantial part of the contract for the road which will run for 160 km. from Malaga, near Bilbao to Burgos. Laing's Spanish company now has a Spanish president and there are also Spaniards on the Board.

Mr. Parsons told me that Laing was looking at the prospects for a plant hire operation in Europe. Through John Laing Construction the Group was also ready to consider joint ventures in other appropriate fields both in Europe and elsewhere.

Opportunities are also being sought in Nigeria and in some areas of South America but the real excitement is still in the Middle East where, for example, in Iran, Laing and George Wimpey are in a joint company with the Crown Agents known as Millbank Technical Services and Ordnance and concerned with the design and feasibility studies for an industrial complex at Esfahan.

It is believed the value of the construction work for Laing and Wimpey, which will follow, is around the £400m. mark.

Less successful has been progress on what must be the world's largest housing scheme—100,000 houses for Saudi Arabia which was extensively advertised in the British Press. Laing, no doubt like other big contractors, did a tremendous amount of research and work on a presentation.

However, hope has not been abandoned—patience is a very necessary requirement when dealing with Middle East affairs.

Both Mr. Parsons and Mr. Charnley are agreed that "every thing in the Middle East is getting bigger and bigger." They have the biggest of them all is the plan for a complete railway system in Iran running for about 1,000 kilometres from Tehran

to Tabriz. Everything will be needed from the track to rolling stock and stations.

Little has been said about this £1,000m. project which could involve many British companies. The General Electric Company, for instance, is believed to be very interested, as it will be an electric system. GEC, which in the past has been very much involved in railway work is, however, very coy about this and is not willing to comment.

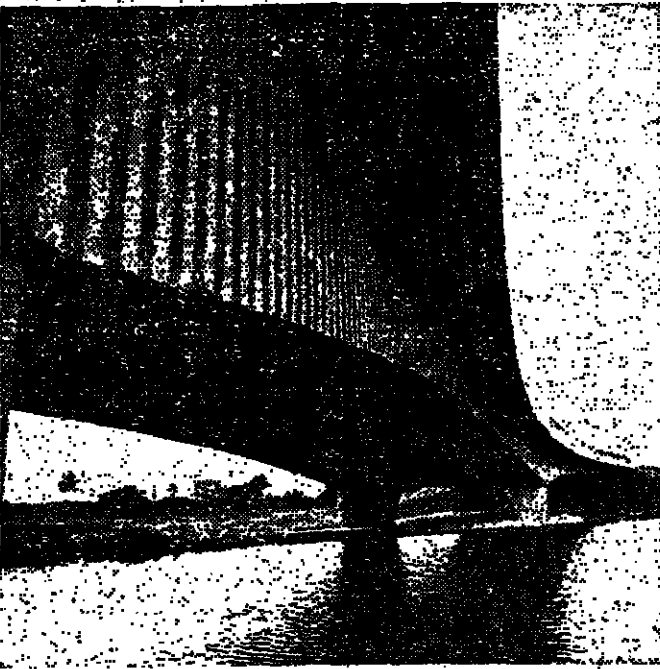
With such vast undertakings on the horizon, joint ventures are the obvious methods of "getting in" and as has already been indicated Laing is not averse to listening to any such proposals.

John Laing and George Wimpey, which has been working in Saudi Arabia in a joint venture with Haji Abdullah Alireza for some years, have now set up a Saudi company.

Thus confidence is established. Mr. Charnley told me: "We prefer to adopt a policy of looking carefully at a country and then stay there permanently, rather than just have a foot in it."

It was found also that foreign governments liked to feel that the British Government supported U.K. companies—they looked for a "fall back" position and liked to know the U.K. Government would see that the work was carried out. This is a message both Government and industry in this country should read.

ARTHUR BENNETT



This bridge over the River Great Ouse has been commended under the Concrete Society Awards scheme. It was built by Holland, Hannen & Cubitts and is one of two bridges which were included in a £1m. road contract for the Borough of Bedford. The judging panel considered that this bridge merited a commendation, not only due to the successful use of concrete in blending with the landscape, but also in its fluted finish and alignment.

Tarmac to build £3m. factory

TARMAC Construction has been awarded two contracts with a combined value of almost £3m. by Devro (Johnson and Johnson Group) for a re-generated collagen sausage skin factory.

The company's industrial division has won the contract to build the factory and office complex at Bellshill, Lanarkshire, while its mechanical and electrical services group has been awarded a £1.5m. contract to design, procure and erect the plant and services for the factory.

The 66-week building contract, worth nearly £1.4m., will involve the construction of a steel-framed single-storey building with an in-situ concrete mezzanine floor giving a gross floor area of 9,800 square metres. Two of the perimeter walls will be of temporary construction to provide for future expansion.

The other contract, worth £560,889, is for 77 houses and flats at Westwood Road, Salisbury, Wiltshire, for Salisbury District Council. This job is due to be completed in November 1976.

TWO CONTRACTS, totalling over £1m., have been won by Mears Construction.

In Haverfordwest, the company is to erect five residential blocks for hospital staff for the Welsh Health and Technical Services Organisation at a cost of £573,887. The work is scheduled for completion in September next year.

The other contract, worth £560,889, is for 77 houses and flats at Westwood Road, Salisbury, Wiltshire, for Salisbury District Council. This job is due to be completed in November 1976.

Effects of rain on masonry

RESEARCH to determine the resistance of various types of brick masonry to rain penetration is to be sponsored by the Mortar Producers Association.

The research programme will be carried out by the department of construction technology at Birmingham Polytechnic and several test walls will be built from Fletton and calcium silicate bricks, using cement, lime and sand, aerated cement and sand and masonry cement and sand mortars.

The walls will be placed in a test chamber and subjected to simulated heavy rain. Continuous measurements will be made of the amount of water penetrating into the walls during the tests.

Performance of the walls will be compared with that of two "control" walls bonded with waterproof epoxy mortar.

Water penetration in brickwork usually occurs at the interface between the bricks and the mortar courses, rather than through the bricks themselves or the mortar itself. The research programme will determine which mortars form the most watertight interfaces.

It is expected that the tests will be completed by the end of the year and a report published shortly afterwards.

Oil platform floated out

THE FIRST stage of the £35m. concrete oil production platform being built by Andoe for Shell Exploration and Production has been floated out of its construction site on the Maasvlakte, near Rotterdam.

Five tugs towed out the partially complete 9 metre caisson weighing 70,000 tons after the dock in which it had been constructed had been gradually flooded over a three-day period and the earth wall between the dry site and the Beekman had been removed by dredging.

Draught reduction of the structure which has an area of one hectare will eventually weigh 250,000 tons was achieved by using an air cushion.

Since May last year, massive concrete pours have taken place on the site—part of the Europort area of reclaimed land—to form 81 cells which make up the caisson and will provide storage for 1m. barrels of oil when the platform is positioned at its drilling location in the Dunlin field north east of the Shetland Islands.

It will then be towed to a deep water site where the third stage of construction will take it to its full height of 237 metres. This will involve the addition of steel columns, deck and modules ready for the platform to be taken to its final position in the North Sea.

The Andoe consortium includes Balfour Beatty, Bos Kallis Westminister Group NV, Holsche Beton Groep NV, Koninklijke Adriaan Volker Groep NV, Leonard Fairclough NV, Stevin Groep, and Tarmac Construction.

£2.25m. is for 301 dwellings at Beaumont Leys, Leicester. Contracts have also been received from the Department of the Environment for a driving school at Cardington (£670,000), from the Oxford Regional Hospital Board for health centres at Wotton-on-the-Green and Wolverton, totalling over £1m. and from the Steeplechase Company (Cheltenham) for the erection of a dining room and kitchen block at Cheltenham Racecourse (£286,000).

The remaining contracts include a shopping unit at Wolverton (£254,000), an extension to the science department at the Bedford School (£254,000), phase 2 of the Wootton Hall police headquarters (£500,000) and the Kettering Latham Secondary School (£642,850).

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Watches for movement in concrete

A NON-CONTACT device for measuring deformation in concrete beams and lintels, developed by Difracto of Ontario, is being used in the strain monitoring of structures using high alumina and other quick drying cements.

One part of the system is mounted on the member to be measured. It consists of two straight bars in the same straight line each fixed at one end, parallel to the surface of the concrete and just clear of it, so that the other ends are spaced apart by a small, prescribed amount. The ends are rag-bolted or similarly secured. The gauge itself is under no strain.

Changes in the gap due to strain are measured by the second part of the unit—a laser beam. This is projected through the gap to produce a diffraction pattern on a vertical surface the other side. Although the gap changes are small, they produce large variations in the diffraction pattern, interpreted to give gap change data.

In one version the pattern is recorded on film and in another the camera is replaced by a photocell which can give an immediate on-site result. More from the distributors, Survey and General Instrument Co., Fircroft Way, Edenbridge, Kent (073271 4111).

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Mining and railways contracts

THE Cementation Company (Australia) has been awarded a contract worth \$4.31m. for the construction of a 1,500 metre long drift at a new coal mine at Tahmoor, NSW. The drift will be 4.2 metres wide and 4.2 metres high.

The work is being carried out for Clinton's Transport, a subsidiary of Clutha Development. Work will start in August and take about two years to complete.

Cementation (Africa Contracts) (Pty.) Ltd. has won the contract to erect station buildings, platforms, signal cabins and other premises on the new Vryheid-Richards Bay railway. There will be 21 stations and halts along the 160 km. line which is expected to open next April.

The contract is one of four awarded to Cementation by South African Railways totalling R31m. The others are for two goods depots and installation of a stormwater drainage system at one of the goods depots.

Freight carried on the new line will include 3.5m. tons of coal annually from the Transvaal coalfields.

Extensions by Wiltshier

RECURRING extension of offices in Eastcheap, London, for Commercial Union is to be carried out by Wiltshier Construction at a cost of £215,925.

The company is also to extend the telephone exchange at Kingston-upon-Thames, Surrey, for the Property Services Agency. This contract is worth £268,295.

Wiltshier has nearly completed a £1.3m. computer centre at Whyteleafe, Surrey, for Commercial Union.

Lining the sewers of Singapore

McCONNELL DOWELL South East Asia PTE of Singapore has placed an order with Charcon Composites of Middleton-by-Wicks, Derbyshire, for glass reinforced cement sewer linings for the Bukit Timah Sewer Contract 3, Singapore.

McConnell Dowell is the general contractor for this project which involves the construction of a sewer 2 metres in diameter and some 1,000 metres in length.

This is the first major order for Charcon Composites' new Wicks factory since it was completed last month. The company declined to disclose the value of the order.

Charcon Composites is a member of Charcon, the construction industry subsidiary of the Charterhouse Group.

Fitting out a big Co-op store

A CONTRACT, worth £1m., has been awarded to Sir Robert McAlpine and Sons by the London Co-operative Society for finishing and fitting out work in a commercial development currently under construction for St. Martins Property Corporation in King Street, Hammer-smith, London.

Comprising a basement, ground and first floor, the new fully air-conditioned store will have a gross floor area of 7,000 square metres. It will include loading bay, warehouse, food preparation and storage facilities as well as a kitchen and cafeteria.

The new Co-op store will be at the heart of a development which, by late 1977, will consist of almost 100,000 square metres of shops, supermarkets, offices, multi-storey car park and residential accommodation.

Architects are Ronald Wylde and Associates.

Strengthens and keeps water out

CONCRETE AND mortar can be waterproofed and their tensile strength increased by up to 50 per cent, using a two-part water-based epoxy resin just put on the market by Unibond, Tuscan Way, Camberley, Surrey (0276 63135).

The resin is claimed to be particularly suitable for patching and re-surfacing damaged or damp concrete floors. A 3mm to 6mm screed containing 1 kg of resin for every 3 kg of sand and 1 kg of Portland cement is claimed to be completely impervious to rising damp, to spillages of water and to most aqueous chemicals.

The screed will also withstand heavy traffic. Prepared with a minimum amount of water it will develop a compressive strength of 35 N/sq. mm, a flexural strength of 12.6 N/sq. mm, and a tensile strength of 5.6 N/sq. mm.

Tunnelling machine licence

THE NATIONAL Research Development Corporation has granted a licence to Elgord Mayo Corporation of New York and Lancaster, Pa., for the manufacture of bentonite tunnelling machines, covering the markets in North and South America.

NRDC has already licensed Edmund Nuttall and Robert L. Priestly in the U.K. to cover the markets in Western Europe, Turkey, Israel and New Zealand.

The bentonite tunnelling machine, invented by Mott, Hay and Anderson, is a shield designed to excavate mechanically through difficult granular materials, particularly sands, silts and gravels. The face is supported by bentonite slurry, under pressure, in a chamber at the front of the shield within which cutters rotate, excavating the ground.

First use of this British invention took place on a trial section for the London Underground Fleet Line at New Cross, South East London, in 1971/72, the work being financed by NRDC and the London Transport Executive.

Edmund Nuttall is currently using a similar machine to drive a 9 foot 5 inches outside diameter (2.87 metre) sewer tunnel in the North West of England for the Warrington New Town Development Corporation under a contract worth over £1m.

Housing in Darlington

HOMES FOR nearly 1,000 people are to be built at Red Hall, Darlington by George Wimpey under a £2.3m. contract awarded by Darlington Borough Council.

A total of 220 dwellings will be constructed in Wimpey's No. Pines concrete technique and the project will include bungalows, flats and houses in one, two and three storey blocks.

The contract, on which work has now commenced, includes the roads and sewers and is due for completion in February 1977.

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New issue
June 1975

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FINANCIAL TIMES SURVEY

Monday June 16 1975

TUNISIA

Tunisia has enjoyed steady progress on most fronts since independence and has recently achieved some impressive economic successes. Apart from a rather eccentric foreign adventure early last year, President Bourguiba's unifying personality has done much to provide a clear lead for the country.

Fatherly hand on the helm

IF ONE had to choose one word which might describe Tunisia's most identifying characteristic then it would probably have to be "stability." There are others, of course, some of which are equally flattering and some of which are less so. But "stability" is what best captures Tunisia's quiet and individualistic march since it achieved its independence.

There are some who would argue, and do so with a well-marshalled set of arguments, that this stability is superficial and largely linked to the charisma and fate of one man, after his departure and that the stresses and conflicts which exist within Tunisian society will bubble, or possibly erupt to the surface. That man of course, is Habib Bourguiba, President and, in a very real sense for most people in Tunisia, father of the nation.

Whether the sceptics are right remains to be seen, of course, though the arguments they put forward are not entirely unreasonable and these are examined in more detail in a further article. What is certainly true is that President Bourguiba, whose age and health no longer

permit him to run the country's affairs at an administrative level (though he retains control of overall policy-making) remains an all-pervading and, in a sense, almost constraining influence, rather like a respected Victorian father whose children are too much in awe of him to allow themselves an uninhibited expression of personal choice and for whom dissent is uncomfortably close to impertinence.

Bourguiba's special place in Tunisian history was enshrined at the end of last year when the National Assembly confirmed him as President for life which, his ministers insist, is an act which should be interpreted less as a political straw in the wind and more as a mark of respect for a unique individual.

In any case the idea has clearly been warmly welcomed by the vast majority of Tunisians for whom Bourguiba, whatever else he may mean to them, also symbolises the stability and continuity which has given them one of the highest standards of living in North Africa and a level of economic progress and social enlightenment quite uncharacteristic of the Arab world.

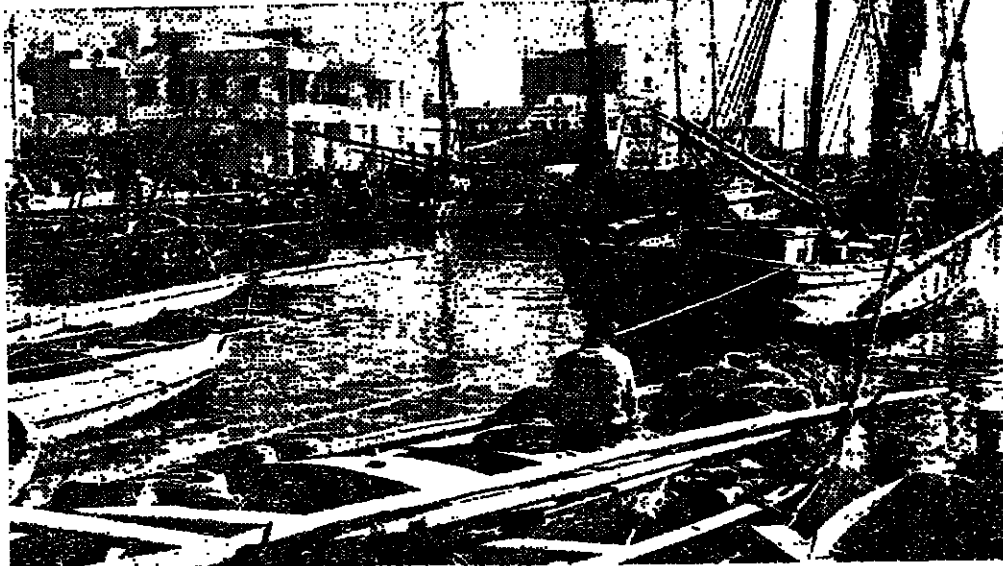
At a time when the rest of the world is suffering from the effects of a deepening recession, Tunisia's economic progress, its growth rates, its level of investment and financial stability are indeed impressive, though whether these are the results of political stability or whether they are the causes of that stability is unclear. Probably a bit of both. Certainly the present Government has astutely used the favourable economic conditions to its political advantage.

In recent months the Government has been slowly

relaxing its previously iron grip on the commanding heights of the economy allowing foreign capital greater freedom of movement and opportunity and releasing market forces within the country to respond more naturally to the laws of supply and demand. The co-operative economic strategy in the sixties is now no longer mandatory and, though it still has some serious problems to overcome, to some extent, act as a restraint on the rest of the economy's ability to expand further, the predominant agricultural sector is clearly much better for this greater flexibility.

A recent report by the International Bank for Reconstruction and Development was particularly favourable in its assessment of the management of the economy and this has added to the general air of confidence which pervades the inner sanctums of the Kasbah—Tunis's ancient and ornate seat of government.

The same firm hand and clear vision which appears to guide Tunisia's economic policies cannot be said to have been in evidence in the field of foreign affairs in the past 18 months or so, though in one area, at least, Tunisia, or more precisely Bourguiba's, policies have proved, in retrospect, to have been right if not prophetic. This is in the domain of the Arab-Israeli conflict where the Tunisian President's traditional stand, of making peace with Israel and finding a political solution to the Palestinian problem is now the conventional wisdom. If anything, Bourguiba's policies which, when they were first uttered some ten years ago,



The harbour at Sfax.

were regarded as treason by the rest of the Arab world, are now almost extremist since they hold out for a solution based upon the continued existence of Israel not within the 1967 boundaries, as Egypt and even Syria are willing to concede, but further back within the 1947 partition borders.

The past 18 months have also, however, witnessed a less fruitful excursion into foreign policy by the President in the shape of the now celebrated Djerba declaration of January 1974 which enshrined, but never fulfilled, the aim of full political, economic and military union between Tunisia and its eastern neighbour Libya.

The real story of what happened immediately prior to Djerba and the encounter between the ageing Tunisian leader and Colonel Muammar Khadafi, Libya's young and

zealous President, is still far from clear. On the face of it the project for union was the result of momentary, if ill-advised enthusiasm as well as a bid for personal advancement, if not outright power, by Mr. Mohamed el-Masrouki, the then Tunisian Foreign Minister, now living in morose exile.

The Prime Minister, M. Hedi Nouira and other key personalities who would almost certainly have prevented things getting that far had they known what was happening, were away at the time though they quickly returned and nothing more has since been heard of the idea. The referendum, which was to have been held to ratify the creation of the new "Islamic Arab Republic," has been postponed indefinitely and the official explanation is that the declaration was misinterpreted by both sides but that union

deal which would almost certainly carry in its wake a long-term if not quasi-permanent Soviet presence in Libya. Such a presence, apart from fundamentally altering the balance of power in the region must, as one high Tunisian official put it, raise "serious question both about Soviet and Libyan intentions."

The whole complex web of relationships between the North African States appears to be in something of a poor condition at present with the reality, if not necessarily the vision, of Maghreb unity receding further into the distance despite an endless series of talks and negotiations. In some respects this seems to suit Tunisia's present mood of singular self-confidence and determination to pursue, at the greatest possible speed, its drive for economic viability.

One area which has deeply preoccupied the Government, and which has summoned up a minimum of co-ordination between the three Maghreb States (Tunisia, Algeria and Morocco) is the ongoing negotiations with the European Economic Community aimed at reviewing and significantly strengthening the existing association agreements for trade and economic co-operation.

The negotiations have been going for some time now and have been held up, at various stages, by two broad areas of disagreement between the Tunisian suspicion of Libyan Maghreb States and some, though by no means all, of the members of the Common Market. One of the problems has been the growing reluctance of the Soviet Prime Minister's visit to Tripoli and Tunis that Libya was on the verge of signing a multi-billion dollar arms

BASIC STATISTICS	
AREA:	62,378 sq. miles
POPULATION:	5.5m. (est.)
GDP (1974)	D1,336bn.
GDP per capita	D252 (est.)
TRADE:	
Imports (1973):	D261.6m.
Exports (1973):	D174.5m.
Imports from U.K. (1974):	£11.5m.
Exports to U.K. (1974):	£6.2m.
CURRENCY:	£1=0.86 Tunisian Dinars

unemployment and slack economic activity in its own country. Another problem has been Italy's persistent opposition to certain parts of the proposed free trade agreement particularly in the agricultural field.

The negotiations received a belated, though by all appearances, none-too-serious setback when the Community announced agreement with Israel on a similar trade pact.

The Euro-Arab dialogue went off on schedule in Cairo earlier this month (despite threats to suspend it) and the negotiations between the Maghreb and the EEC are unlikely to be delayed.

Realism and tactical flexibility have been a particular characteristic of Tunisian policies over the years: they have been, and are likely to remain for the foreseeable future, essentially moderate policies based upon the interests of Tunisia rather than those of a more comforting, though less predictable and in the long run less profitable militant Arab dogma.

Alain Cass

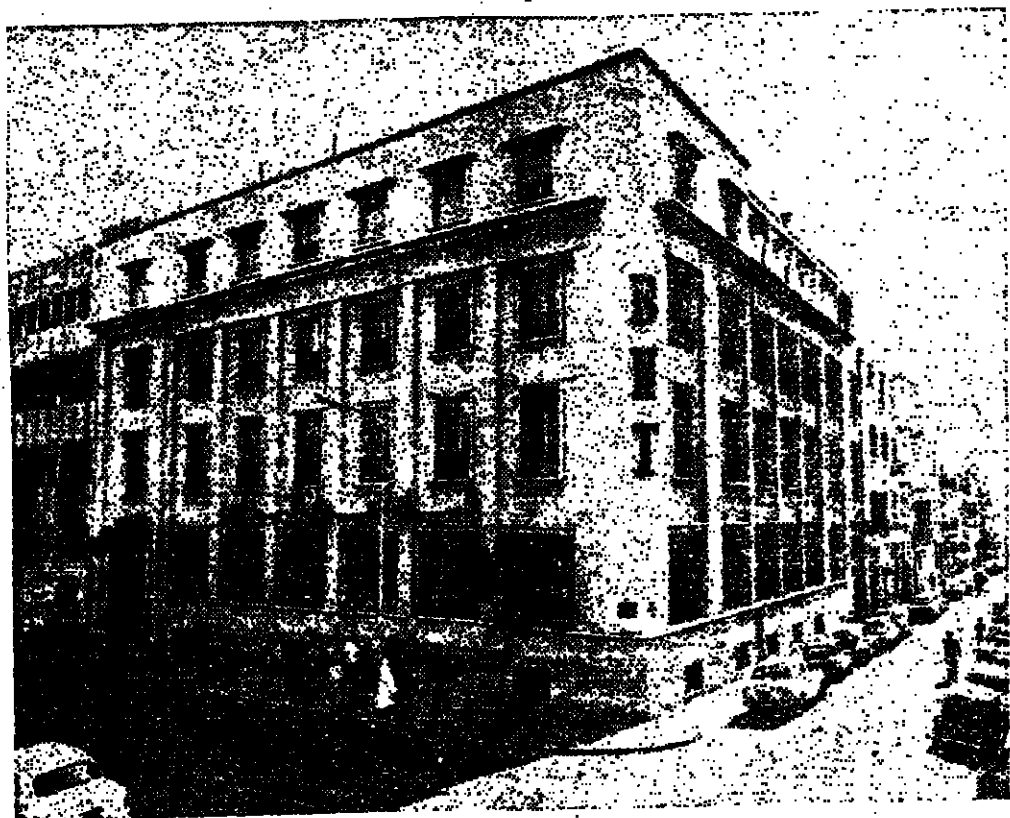
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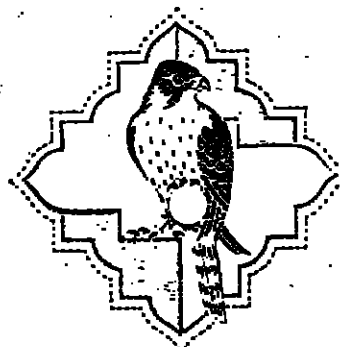


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TUNISIA II

With the economy at a turning point, the economic successes of recent years have produced rewards and challenges to be met by imaginative policies. Inflation has been combated by subsidies. The trade deficit has been reduced. Money is tightly controlled.

Economic realism

IT WOULD be surprising if an economy which has managed to register average real growth rates of around 10 per cent a year, for the past four years 9 per cent in 1971 and over 16 in the current economic climate did not find itself the recipient of a variety of plaudits. Indeed, it would be hard to escape the conclusion that such plaudits may reflect, as much as any, the thing else, the inadequacies and misfortunes of a world struggling to keep its head above water in particularly bad economic weather. Judgments are, by definition, comparative, and if one had to make a judgment about Tunisia's economy it would almost inevitably have to be favourable, if not enthusiastic.

Global judgments, however, tend to do things. They almost always oversimplify what is, at best, a complex situation (and in Tunisia's case, this is particularly true) and they also tend to obscure the nature of the problems the country faces by giving a picture which lacks the subtlety of shade required for a measured appreciation of the situation.

Fortunately, Tunisia's economic managers have not allowed success to go to their heads. At most, levels, one finds a hard-headed realism (not always the characteristic of booming but underdeveloped economies), which largely removes the very real risk of complacency.

The point is not made flippantly. There is a prevailing argument among the present Government's critics that M. Hedi Nouira, the Prime Minister and the man unquestionably in overall control of the economy, and his Government are enjoying a particularly good set of circumstances not of their making such as the weather, which have boosted production and provided financial stability and that, to quote one such critic, they are "sitting on their laurels."

On the whole, this does not appear to be the case. What is true, however, is that the economy is at a turning point and that successes of recent years have produced rewards as well as challenges which are likely to be met only by imaginative economic policies.

Investment

The challenges, which have a lot to do with future planning and the abilities of M. Nouira's Government to attract investment in the right areas and deploy resources effectively, are the subject of following articles. Here we confine ourselves to examining the background to the present achievements, the policies that have achieved this and the opportunities this has created.

The years immediately after independence were not easy ones. The suspension of financial assistance by the French Government, the repatriation of foreign capital and the severe shortage of skilled manpower were debilitating factors. These were offset by substantial amounts of U.S. aid, good harvests in 1958/59 and high agricultural exports. But in the early years and throughout the 60s, economic conditions were characterised by large trade and balance of payments deficits, unemployment and rather haphazard planning procedures—consistent characteristics of a developing country.

From 1961, when development planning can be said to have begun in earnest, to 1969, the economy registered average annual growth rates of around 4.6 per cent. Agriculture, then and now, the predominant sector, whose success, year by year, fundamentally affects the progress of the rest of the economy, grew by less than half that figure, actually registering falls from 1966-68 due, first to bad weather, and the dislocation caused by the drive to co-operatives and, in 1969, the floods.

Since then, of course, growth

has accelerated sharply. GDP, according to Tunisian figures, register average real growth rates of around 10 per cent a year, for the past four years 9 per cent in 1971 and over 16 in the current economic climate. These exceptional performances were due to a number of factors, chiefly good harvests, spectacular growth in the tourist industry and solid improvements in the financial position due to a conservative monetary policy, reversing earlier and too rapid expansion of money and credit, which, up to 1964, had been responsible for serious financial imbalances.

Improved

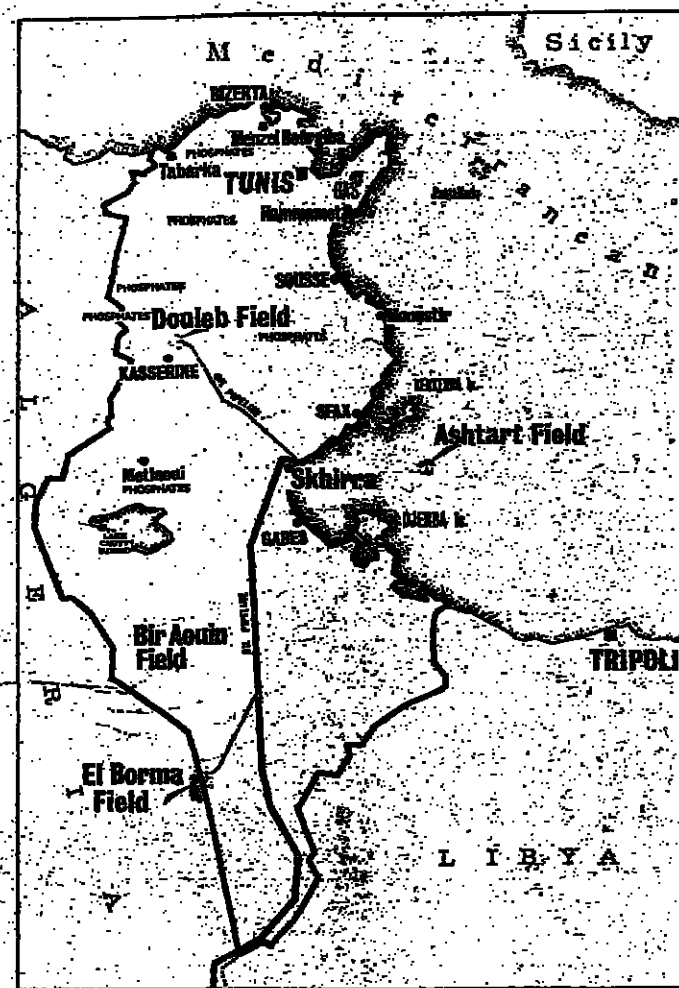
1973, with a growth rate of 2.8 per cent, was not such a good year, though several sectors (trade, manufacturing, industry and construction) continued to grow at a healthy pace. The year was, as it has turned out, no more than a hiccup and 1974 not only achieved, but probably surpassed, the overall growth target of 9 per cent. This was thanks, largely, to the rise in oil, phosphate and olive oil prices, as well as improved terms of trade position.

The rise in commodity prices has been enormously helpful in further stabilising an already healthy financial position. The Government involvement in and control of the broad area of finance is especially marked with distinctive policies in money supply, investment promotion and price control.

Foreign exchange reserves have stood at over \$400m. for some months now (or roughly five months imports). Gross Domestic Savings stand at over 17 per cent of GDP, while Gross Capital Formation is consistently over 20 per cent of GDP. This has meant a reduction in the volume of foreign capital required for investment, though more recently foreign investment has been more actively encouraged to meet development needs, and the tight monetary and credit controls, which characterised the late '60s and early '70s, have been relaxed.

It should be said that some observers and officials feel that, despite this, credit and money policies are still too tight and that considerable further potential exists both in local capital markets and those abroad. The Government is still reluctant to allow Tunisian investors to raise money abroad, largely because, after the years of overcommitment, the administration feels very strongly that viability can only be assured by living within one's means.

In any case, with investments in 1974 exceeding forecasts, to reach \$322m., or over one-third of Gross National Product, this remains, at best, a moot point. Raising money abroad aside, the local equity markets have shown a healthy growth, with the volume of business on the Bourse de Tunisie rising from \$2.9m. in 1971, to \$3.3m. in 1972, \$5.2m. in 1973 and vir-



tually doubling to \$10.2m. last year, from 1970-73, against a rise in salaries and wages of between 25 and 30 per cent.

The chief instrument of the monetary policy in Tunisia is the Central Bank and, one suspects, almost equally influential at least two or three times as in other areas of economic life, hidden inflation is probably the banking sector has, on average, expanded one of 15 per cent or higher. At any rate, the burden which the Government has chosen to shoulder in protecting the value of capital abroad is not public from the effects of excessive, is that the deposit inflation has won it considerable banks, finance institutions, able admiration and, with its specialised credit banks and full employment policy, pay handsome dividends to a high proportion of local demands in the short term.

Interest rates are strictly controlled by the Central Bank, which uses a variety of quantitative restrictions to control credit expansion, but there may be a case for a measure of liberalisation and for allowing market forces to determine certain interest rates, thus freeing idle potential. Under the Third and Fourth Plan, substantial amounts of private capital have been raised to finance State enterprises, though where those enterprises enjoy a monopoly situation, it is difficult to say whether that money is being put to good use or simply used as additional means of deficit financing.

One of the Government's major preoccupations is prices. Direct subsidies in 1974 reached nearly \$50m., mainly on sugar (\$10m.), fertilisers (\$10m.), and cereals (\$18m.). The local equity markets have shown a healthy growth, with the volume of business on the Bourse de Tunisie rising from \$2.9m. in 1971, to \$3.3m. in 1972, \$5.2m. in 1973 and vir-

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and 0.4 per cent of imports). The concept of a Maghreb Common Market, as one high Tunisian official put it, is "for the present an unrealistic one." Ever since it severed its more formal bilateral economic ties with France, Tunisia has been attempting with some success to diversify its sources of trade and, certainly, its export orientated strategy is to diversify its most recent prime objective.

The United States has now moved into second place as supplier to Tunisia with imports reaching 15 per cent in 1972. (This includes large amounts of commodity aid.) So far as the re-opening of the Suez Canal is concerned, it remains to be seen whether Tunisia can exploit the shorter routes to its eastern markets to improve its position there.

Strategy

A major aspect of Tunisia's external trading strategy must be its renegotiation, along with the other Maghreb countries, of the association agreement with the EEC. As has been mentioned in the introductory article, this appears to be near conclusion. (The EEC's pre-emptive deal with Israel notwithstanding) and strong hopes for a more solid trading future are pinned on the successful outcome of negotiations. Clearly the Maghreb countries stand to gain a lot from this agreement.

The chief proposals on the negotiating table fall into three broad areas. The first is economic co-operation. This includes commercial agreements, co-operation in manpower training and technical assistance, private investment and sub-contracting.

The second is financial co-operation and here the Tunisians are particularly looking for a boost to investment, as well as aid on short-term. Finally, and perhaps crucially, a free market area is envisaged, allowing unrestricted entry of industrial and agricultural products to the EEC in return for a lowering and eventual abolition of custom duties and other restrictions on EEC products into the Maghreb.

So far, negotiations have run into difficulties, primarily due to Italian opposition to the trading clauses, though senior Ministers in Tunisia appear confident that a compromise can and will be found in the not too distant future. There is also perhaps understandably, in the present recession, some disagreement over migratory labour quotas though again the difficulties do not appear insurmountable.

Perhaps one of the most pleasing things about Tunisia's politically directed economy, and it remains that and is likely to do so for some time to come, is the desire for a healthy dynamism and high ambitions. It is not, as one might suspect, an economy simply held back on profitability. The underlying aim of M. Nouira's *contrat de progrès* are essentially social. The tight control exercised in monetary and fiscal policy and in other sectors of the economy, have, on the whole, prevented the sort of disaster so evident in the unrestrained economies of certain other developing countries.

There are, of course, some serious problems to be tackled, which are examined in greater detail in the article on the facing page. Infrastructure, unemployment, a paucity of technical expertise, lack of capital, an unequal wage structure, insufficient pre-investment studies and so on.

The objectives of the "Perspective Decennale"—self-sustained growth, equality of opportunity, full employment and a complete overhaul of institutions—may not be entirely achieved, but the argument that Tunisia is well on the way in doing so is, a hard one to counter.

Alan Cox

FOREIGN EXCHANGE REVENUES

	1963-64	Percentage Distribution 1966-67	1968-70	1971-72
Olive Oil	12.5	8.4	5.3	12.7
Wine	10.9	3.8	2.3	0.8
Agri. prod.	17.5	13.8	6.9	6.4
	40.9	26.0	14.5	19.9
PHOSPHATES				
Rock	8.9	9.7	5.9	3.9
Processed	4.2	4.7	4.9	3.8
Other mining	4.4	4.9	5.1	3.4
	17.5	21.3	15.9	11.1
Petroleum		4.4	13.4	12.8
Manufactured goods	4.8	5.8	6.1	5.1
	63.2	59.5	51.9	48.9
Tourism	5.5	12.6	17.3	22.6
Workers remittances from abroad	2.9	4.1	7.3	9.2
Other invisibles	28.4	23.8	23.5	19.3
	36.8	40.5	48.1	51.1
Total	100.0	100.0	100.0	100.0

Source: Ministère du Plan

Tunisia's trading partners have been traditionally influenced by its relations with France. Exports to and imports from France accounted for nearly two-thirds of Tunisia's external trade, but after a series of events culminating in 1969 with the first association agreement between Tunisia and the EEC, France lost its pre-dominant position in most areas, though still, in 1972, accounted for around 30 per cent of Tunisian trade.

The Community accounts for over half of Tunisia's trade (51.8 per cent of exports and 55.8 per cent of imports in 1971), while very little trade is done with its Maghreb partners (11.6 per cent of exports

and 12.6 per cent of imports).

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TUNISIA III

Tunisia is not naturally a rich country, and national planning has had to be most astute in using the generally limited resources available. A degree of luck in oil strikes, a world commodity boom and tourist growth have helped achieve a healthy rate of economic growth.

Problems of high unemployment.

Planning strategy

THE EVENTUAL success, or indeed failure, of Tunisia's economic strategy, will depend to a substantial degree on the astute deployment of its assets, which are limited in most fields and abundant in a small number of others. For, despite the present highly favourable conditions, which have helped the country's economy maintain an underlying momentum (good weather, new oil strikes, a healthy tourist revenue and the manifold increase in commodity prices) Tunisia is not, in the orthodox sense, a rich country.

Even in those sectors where it does benefit from natural advantages, the difference between a good and a bad year (which in the nation's present stage of development could make all the difference to its economy) rests largely in areas outside Tunisia's direct control. The weather, world demand for olive oil, phosphate prices and even the tourist industry are all areas where growth may be devoutly wished for, but rarely manipulated and far less controlled.

Development planning in Tunisia has been a more or less coherent element of its economic strategy since the early 1960s, when, in the general context of the "Ten Year Perspectives" (Perspectives Decennales), a series of plans were implemented. After the early years, characterised by over-enthusiasm, if not ill-conceived and ill-adapted excursions into socialism based largely upon the cooperative concept, which found little favourable response in the national character, later administrations have shifted Tunisia back on to a broadly liberal economic path.

Bulwarks

In some respects, the aims of Tunisia's economic development have remained unchanged for some years. Its chief bulwarks have been, and remain, the transformation, as rapidly as possible, of the economy and the society it serves, into a viable and (for the Arab world, certainly) modern instruments of progress.

The chief objectives of the Four-Year Plan 1973-76, more specifically, are high and accelerating growth, diversion of investment into more productive export-orientated industries, coping with the country's chronic unemployment problem and maintaining the present level of internal and external financial stability.

The Plan envisages a real growth in GDP of 19.8 over the three-year period with total consumption at 1988 constant prices of 7.5 per cent. a year. The Five-Year Plan, still in draft stage and due to be presented to the Council of Ministers and Parliament later this year, foresees a slightly increased growth rate.

The role of the public sector has been crucial in this overall strategy and, though of slightly less significance since the policy reorientation of 1969, it has been largely responsible in achieving the exceptional rate of gross capital formation, which in 1961 represented 17 per cent. of GDP, 27.6 per cent. in 1965 and remaining consistently over 20 per cent. since.

At the outset of the "Ten-Year Perspectives" per capita GNP stood at around \$205 at current prices, rising to \$310 in 1971. In real terms, this represents a growth of 2.5 per cent. a year against 4.7 per cent. in GDP which, though lower than the target figure of 8 per cent., is still respectable enough.

In addition, the healthy growth in savings to around 19 per cent. of GDP in 1971 (which reduced the proportion of investment financed by public external borrowing from 52 to 12 per cent.) the improvement in the balance of payments and the emergence of a foreign exchange surplus, meant that planning in the 'seventies could proceed on a relatively solid financial base.

The Four-Year Plan soon to



The city of Tunis from the top of the Africa Hotel.

GDP BY ORIGIN PROJECTIONS
(PERCENTAGE DISTRIBUTION)

	1971	1972	1973	1974	1975	1976	1972-76 GROWTH RATE
Agriculture & Fisheries	17.6	19.2	15.4	15.4	15.7	15.3	3.5
Mining	1.2	1.0	1.1	1.0	0.9	0.9	0.9
Petroleum	4.6	4.3	4.4	4.6	4.1	3.6	2.9
Manufacturing	6.3	9.4	9.1	9.6	10.1	10.6	11.8
Building & Public Works	6.3	6.1	7.3	7.9	7.4	7.5	12.9
Transport & Communications	5.7	5.6	5.9	5.7	5.7	5.3	5.5
Services	28.5	28.3	28.3	28.1	28.1	28.1	7.4
Govt wages & salaries	12.9	11.8	13.1	12.5	12.4	12.2	8.2
Energy & water	1.7	1.5	1.7	1.6	1.6	1.6	9.6
GDP at factor cost	86.8	87.2	86.5	86.4	86.2	86.1	7.4

Source: Ministère du Plan.

INDUSTRIAL PRODUCTION INDEX
(1966=1973: 1966=100)

	1966	1967	1968	1969	1970	1971	1972	1973 (10 months)
Manufacturing	100	112	116	114	124	135	150	151
Food Processing	100	119	110	109	109	131	152	157
Textiles	100	118	129	142	146	143	147	158
Leather & Shoes	100	93	100	115	120	121	121	119
Mech. & Elec. Industries	100	108	107	113	127	147	164	183
Bldg. Materials & Glass	100	101	111	120	119	125	133	124
Chemical Industries	100	114	125	121	133	143	150	147
Petroleum Refining	100	105	122	125	131	133	136	125
Paper	100	114	117	124	116	125	138	134
Mining	100	92	112	100	111	115	120	126
Crude Oil	100	145	207	240	269	265	258	253
Phosphates	100	90	107	83	96	701	108	116
Electricity, Gas	100	110	122	138	150	167	188	207
GENERAL INDEX	100	108	115	113	123	133	145	149

Source: Institut National des Statistiques.

merge into the Five-Year Plan, the continued growth of Tunisia's already advanced favourable conditions. It also had to face up to some serious shortcomings which were, and remain, significant constraints, that could, if they are not overcome, slow what has been an impressive progress.

These constraints are chiefly to be found in the relatively small contribution which industry makes to exports (manufactured goods in 1970-71 contributed less than 5 per cent. of total foreign exchange earnings against 14 per cent. for agriculture, 26.1 per cent. for mining and oil and 55 per cent. from workers' remittances and tourism); for a country where a high literacy rate and manual skills are a feature this could certainly be improved on.

Tunisia also has a relatively underdeveloped infrastructure which itself acts as a brake on industrialisation particularly in the inland areas where investors are reluctant to commit capital. This, in turn, perpetuates a situation in which nearly two thirds of the population lives off the land in one way or another, while contributing (in 1973) less than 20 per cent. to the GDP.

A growing agricultural population contributing a declining proportion of GDP is a continuing trend confronting the Government with the choice of either increasing agriculture's share in GDP (to, say, at least 30 per cent.) or restructuring the economy, which, though more sensible in the long run, may prove extremely difficult in the short or medium term.

Despite recent attempts to revive the role of the private sector, the commanding heights (as well as some of the lower echelons) of the Tunisian economy remain in the hands of the Government. Economic strategy, not surprisingly, has a strong political flavour. The chief aims appear to be to ensure political stability through the creation of employment and

petro-chemical development and a series of unrelated heavy industrial developments.

The problem of infrastructure is regarded by the Government as an urgent priority, largely because its solution would also have a direct effect upon the equally vexing problem of the over-concentration of industry along the coast, and in particular, in the area of Greater Tunis, to the detriment of central and southern Tunisia.

Overall, however, Tunisian development planning is well suited to the country's needs and given efficient implementation in the field, should assure the continued healthy growth which has characterised Tunisia's economy in the seventies.

Alain Cass

Predominance

The growth and predominance of Tunis has been a central fact of life in recent years and though there may be some political advantages to this, economically it has meant a drain on the rest of the country. More than 1m. of Tunisia's 5.5m. inhabitants now live in Greater Tunis.

Tunis accounts for 29 per cent. of the working population, 45 per cent. of hospital beds, 52 per cent. of hospital doctors, 26 per cent. of total national investment, 52 per cent. of industrial jobs and 95 per cent. of university facilities. The attraction to Tunis has, it is thought, been partly responsible for the rural exodus of recent years. Unemployment in the country (though more difficult to measure accurately) is estimated to be at least as high as 16 per cent. Tunis is growing at the rate of 50,000 people a year and it is estimated that the population will reach 3m. by the year 2000. A major part of the Government's strategy is to halt this trend and more evenly redistribute investment, jobs and social services throughout the country.

One of the problems that the Government faces in accurately projecting development requirements in any field where population control and manpower estimates figure is that its calculations have to be based on the now outdated estimates of the 1966 census. Unemployment estimates, for example, have to be treated with some caution and no really reliable set of projections can be made until the results of the census, currently in progress, are available.

Efforts are being made to encourage people to stay in the country through land reform, better use of resources, better and bigger credit facilities, largely for the industrialisation of agriculture, and the development of extension services.

From the investor's point of view, the plan envisages a series of measures to improve the productivity of enterprises as well as, through the 1972 Investment Law, provide attractive incentives, including import and fiscal liberalisation, to encourage private capital.

The plan also envisages greater efforts in the field of technical assistance in industry to achieve the desired level of productivity. Training and education programmes in most fields are also regarded as an essential part of medium-term development.

Education in a country where it has played a significant part in social progress, needs to be restructured, the Government believes, with a greater response to what it calls the "economic" demands of a dynamic society. If there is an area where more attention could be given, it is probably in the degree of pro-

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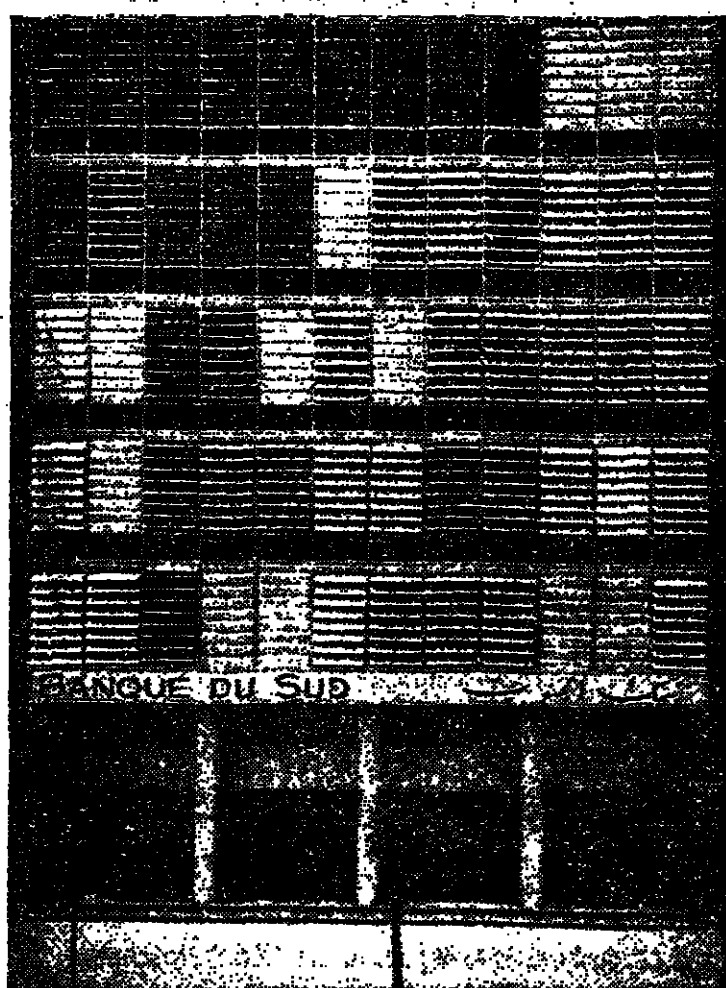


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TUNISIA IV

Tunisia's ruling and only political party, the Destourian Socialist Party, has recently gone in for some fairly hard self-criticism. While the pre-eminence of President Bourguiba is unchallenged as personification of national unity, his party is having to work hard to maintain the legitimacy of its position.

Political questions

"OU VA le Neo-Destour?" The question was recently posed in the form of a headline on the front cover of the party's weekly magazine which contained an exhaustive and, in some respects, surprisingly frank interview with M. Mohamed Sayah, director of the Destourian Socialist Party—Tunisia's ruling and only political party. The question is a particularly apt one at this point in Tunisia's development.

In recent months the DSP has been subjecting itself to some fairly rigorous self-interrogation which culminated, recently, in the party cell conferences which consisted, essentially, of a series of often heated seminars in party cells across the country. These dialogues between the base and ruling elite of the party as well as all the other forms of more or less encouraged forms of soul-searching can be, and of course are, interpreted in two ways depending largely upon whether you are in or outside the relatively rigid and well-defined perimeters of the party structure.

The Party, and M. Sayah, see it as part of the natural development of a ruling party which is both a *parti-pilote* and a *parti des masses*. It reflects, they argue, the DSP's desire to establish truly democratic machinery which can serve both as a means of legitimate expression for the masses as well as a forum in which the ideology of the party can be periodically reshaped and refined to adapt to Tunisia's changing needs.

Conversion

The Party's opponents as well as the silent and sceptical minority within the Party itself see things somewhat differently and, not surprisingly, more cynically. They argue that the DSP's belated conversion to a form of democratic process (which, in any case, they say is merely an apology for democracy) signals two things. The first is that the Party is worried about opposition to its exclusivity and that the latest moves are designed to satisfy a growing desire for political diversification without actually meeting that desire. The second thing that these manoeuvres point to, the critics argue, is that apart from appeasing a desire for greater freedom of political expression, they also define very clearly the boundaries beyond which the Party is not willing to allow that freedom to extend.

In defence of their analysis the party's critics point to certain facts about political life in Tunisia which, they claim, is as clear an indication as any that M. Sayah and his colleagues have no intention of relinquishing the reins of power which they have so assiduously and, they concede, efficiently gathered into their hands. They point to the expulsion of the so-called Liberals from the party at its last congress in Monastir last September when a revolt by a group of government ministers and party members (some for differing reasons) marked the culmination of a protracted struggle for power at the summit. They point equally to the fact that there is no choice of candidates in either municipal or national elections (there are 112 candidates for 112 seats in the legislature), that the Press is more or less controlled and that the party itself (and this is a criticism also frequently voiced by many of the party's own younger cadres) has no well-defined ideology in the way that, say, the Syrian or Iraqi Ba'ath can claim to have, save that of staying in power indefinitely.

Lastly, and perhaps crucially, they point to the recent elevation of President Bourguiba to President for life with parallel constitutional amendments which automatically allow for the succession to pass to the Prime Minister who may then serve what is left of his predecessor's term before submitting himself to re-election. This, in fact, assures the smooth and uninterrupted succession of power after the departure of President Bourguiba.

M. Sayah, a very urbane, very impressive and, one suspects, very ambitious ideologue and party manager, answers these points effortlessly. Since the convulsions of the aborted union with Libya and those of the Monastir congress, the DSP has taken a much firmer hold of things and appears a good deal surer of its destiny and the extent of its support within the country.

The party derives its unique position, says M. Sayah, from its "historical legitimacy" which is personified in Bourguiba and everything he has done for Tunisia and in the struggle which the party itself



Tunisia's President-for-life, Habib Bourguiba (left), pictured with Morocco's King Hassan at last year's Arab Summit in Rabat.

put up to wrest the country's independence from France as well as from reactionary forces within the country. In other words the Neo-Destour and Bourguiba have earned the right to rule the country.

Other parties, of course, are not constitutionally or legally forbidden though they need the approval of the Minister of the Interior to form. In any case, there does appear to be a certain acceptance of the DSP's historical argument—at least while Bourguiba, whose presence overshadows all else, lives. Clearly the argument that other parties, other than the Communist Party which is banned, could organise and find enough popular support to survive is hypothetical until put to the test. But even the supporters of such an idea are not entirely convinced that this would be the case, at any rate to make any significant difference to the political structure of the country. One of the problems, for them, is that the Neo-Destour is now so institutionalised and so closely identified with Bourguiba that to challenge the party would be to challenge Bourguiba which, of course, is unthinkable.

The other chief area of contention is whether a single ruling party is any longer relevant to the needs of Tunisia where the standard of education and the level of political awareness is so much higher than almost anywhere else in the Arab world. One of the most striking aspects of Tunisia is its relaxed sense of freedom which even if superficial, is incompatible with anything remotely resembling a totalitarian state. The question is then, has Tunisia outgrown the Destourian Party and is it ready to move on to something more complex?

Though they do not put it quite so bluntly M. Sayah and senior ministers confronted with the task of implementing the Government's ambitious economic and social policies, essentially believe—and this does not appear to be entirely a facade—entirely from any form of legitimate political activity or the luxury of a real parliamentary democracy. The argument, basically, is that Tunisia has a long way to go with limited resources and will to anything other than the wholehearted exploitation of those resources would be both wasteful and, in the long-run, counter-productive. Since it would delay the economic viability on which the future of the party and the continued political stability of Tunisia depend.

In many respects the dilemma facing the Neo-Destour to-day is not so much a moral as practical one. There is little doubt that, under President Bourguiba's leadership, the Party has taken the country a long way along the road of progress. On the whole people are happy and, especially in the more politically active urban areas, conditions are very good.

Rethink

Perhaps the most striking achievements of the party has been in the field of social affairs. Its policies of equality for women, family planning, social security, health and employment have all had a marked effect on the mood of the people. The pressure for political freedom has, consequently and perhaps correspondingly, been reduced. Its historical and sentimental attraction apart, the Neo-Destour has astutely bought itself valuable time to adjust its role to the future.

Where there may be some doubt, persists about its policies is in the tactical sense. By so clearly, almost ruthlessly, defining the limits, the frontiers of political activity and political legitimacy and by excluding all those who find themselves on

who your opponents are and where they stand in the situation in which the Neo-Destour finds itself than to have been in the heart of the struggle, plotting and undermining it and, conceivably, eventually taking control by stealth. Only time will tell whether he, or those who differ from this appreciation of the tactics the party should adopt (though not the strategy) are right.

What is certainly true is that the Neo-Destour cannot afford to be complacent about its control of the situation. Tunisia is a country which, by choice, has close links with Europe. With so many tourists from the parliamentary democracies of the West arriving in Tunisia and Tunisians working abroad the filtering back of ideas which might erode the existing structure is not simply a theoretical possibility. The logic of the Neo-Destour's situation means that if such a trend should manifest itself it can only do one of two things. It can either suppress it or confide ground to it, however gradually.

In many respects Tunisians are people who have taken their political freedom since independence for granted but have never chosen to put it to the test. Until the departure of Bourguiba, who towers above political differences and is genuinely a focal point of unity, they are unlikely to do so, accepting that the policies implemented in his name are best and that to challenge or reject them would be, in a sense, to challenge their own origins.

But what happens after Bourguiba? Bourguiba and whether the assumptions made by the party and the strategy on which those assumptions are based will remain valid and effective is a question which can only be answered when the time comes.

Alain Cass

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TUNISIA V

In Tunisia's Fourth Plan, the country is investing some 75 per cent. more than in the last four-year period; industrial projects will get the lion's share. With the import-substitution phase now over, the emphasis will be on export industries.

Investment

DURING ITS Fourth Plan Tunisia is to invest D120bn—almost as much as it did in the whole of the previous ten year period and 75 per cent. more than it invested under the last four year plan.

With the country's unemployment problem, the Government regards industrialisation as the key to its future development. Agriculture has been the traditional mainstay of the economy, employing about 65 per cent. of the working population. But its future job potential is limited—especially now that school leavers, with relatively high educational standards and correspondingly high job expectations, are pushing the unemployment total well above the official level of 15 per cent.

So that while the sum to be invested in the agricultural sector during the current Plan is some D79m. higher than in the previous Plan, the allocation of D177.7m. represents only 14.9 per cent. of total Plan investments. By far the greater share is being directed to the industrial sector and to the development of the infrastructure and services necessary to support it. As much as 53 per cent. of total investments, amounting to D63.8m., is to be invested in providing new services and infrastructure against D358.2m. during the Third Plan and 32 per cent. of the total, or D352.7m., is earmarked for industry, compared with D211.5m. in the previous Plan.

Energy

Of the total industrial allocation, D188.5m. is being invested in the energy sector, mainly to finance oil exploration and development work, as well as the expansion of refinery capacity and electricity supplies. Another D34m. is being spent on modernising the mining industry and bringing new phosphate deposits into production.

Manufacturing industry, which is given a high priority under the Plan, accounts for the remaining D180m., which is more than double the amount invested under the last Plan and represents 13.3 per cent. of total Fourth Plan investments. In the past manufacturing industry in Tunisia has tended to concentrate on reducing imports by processing local raw materials (mainly foods) and generally meeting domestic demand. But the Government considers that this function has been largely fulfilled so new industries will need to be more export oriented.

By far the largest growth area is textiles—expected to average 20 per cent. a year during the current period. Consequently the largest share of manufacturing industry expenditure—about 25 per cent. or D41m.—is being utilised here. This industry is now regarded as the second most important manufacturing industry in Tunisia after food processing, and is expected to produce export earnings of some D26m. in 1976.

Food processing, meanwhile, which includes forestry, fisheries and livestock, receives an investment of D28.9m. under the Plan.

Another sector which warrants a sizeable investment—D33.6m. against D7.6m. under the previous Plan—are the metallurgical, mechanical and electrical industries. These are especially encouraged since they create employment which, like textile manufacturing, is particularly suitable for the Tunisian workforce, adept at light intricate work. The sector includes the El Fouladh steel works and the car assembly plants of Siba, Simca and Sotumo as well as the small electrical and mechanical industries.

Fertilisers

The chemicals industry, another growth sector for which Tunisia has ambitious plans, has been allocated D26.4m. This sector is expected to earn valuable export earnings by stepping up processing of phosphate into fertilisers. In time Tunisia hopes to establish a petrochemical complex producing synthetic fibres and plastics.

Of the remaining industrial allocation, D14.1m. is destined for the paper and wood products industries—also considered a growth area—while the construction materials industry receives D16.2m. The latter industry is mainly concerned with cement manufacture. Tunisia currently produces some 650,000 tonnes a year of cement at Djebel Djeloud and Bizerta, but a new 700,000 tonnes a year plant is being built at Gabes at a cost of D31m. Another is planned for the north near the Algerian border.

The main target aimed for employment for its people. It with all this investment in the regards the availability of

labour, political stability and a key geographical position offering simultaneous entry into Europe, the Middle East and Africa as the main advantages which it offers foreign industrialists.

Overall control of industrial investment is centralised in the hands of the investment promotion agency, Agence de Promotion des Investissements (API), which was set up in March, 1973. It now acts as sole intermediary between the Tunisian administration and the investor, channelling all negotiations including project applications and approvals.

The creation of API has gone a long way towards eliminating bureaucratic red tape though there are inevitably still complaints of administrative bottlenecks and delays. Its success can best be measured by the number of projects which it has handled in the two years of its existence.

Since March, 1973, it has approved between 1,700 and 1,800 projects involving investments of D299m. (\$800m.) and creating 61,500 new job opportunities. This means that, in theory at least, API has more than doubled the annual targets set by the Fourth Plan.

Of these approved projects, the industries covered by the 1972 Law totalled 135 and accounted for about a third of total investment and about 40 per cent. of the jobs created. Most were joint ventures by German, French, Dutch and Italian companies with a Tunisian partner, while the industries concerned included textiles, small mechanical industries, electronics and toys.

In practice, achievements have been a little less spectacular since approval does not necessarily lead to implementation. API puts its success rate at 80 per cent. in terms of the number of projects which have actually gone ahead and 60 per cent. in terms of investment.

Repatriation

Most of these concessions are available for a 20-year period, though full freedom from profits tax is only allowed in the first 10 years after which profits are subject to a reduced tax rate of 10 per cent. over the following 10 years. Added to this there are no restrictions on repatriation of earnings generated outside Tunisia.

Similar, though less generous concessions are available to companies producing partly for export, while foreign companies which opt for a joint venture with a Tunisian partner are also eligible for tax and other financial privileges.

For those which are more interested in gaining access to the domestic market financial incentives are covered by Law 74-74 (passed on August 3, 1974). This law provides approval procedures for any company wishing to set up in Tunisia and offers varying financial concessions such as tax exemption linked to the number of jobs created and location of the proposed project—Tunisia is promoting a policy of decentralisation and regional equilibrium.

But before a foreign investor is allowed to set up production for the domestic market the Government has first to be convinced that the local market can support such an industry—in many cases the domestic market is already saturated. Tunisia is quite definitely not seeking haphazard foreign investment purely to bump up its industrial sector. The creation of jobs, coupled with the introduction of new industries and the technology and training opportunities which come with them are the main criteria.

It has adopted its enlightened approach to foreign investment in the knowledge that this is the only realistic way in which it can stimulate the investment it needs to establish a sound industrial base to secure future

labour, political stability and a key geographical position offering simultaneous entry into Europe, the Middle East and Africa as the main advantages which it offers foreign industrialists.

Overall control of industrial investment is centralised in the hands of the investment promotion agency, Agence de Promotion des Investissements (API), which was set up in March, 1973. It now acts as sole intermediary between the Tunisian administration and the investor, channelling all negotiations including project applications and approvals.

The creation of API has gone a long way towards eliminating bureaucratic red tape though there are inevitably still complaints of administrative bottlenecks and delays. Its success can best be measured by the number of projects which it has handled in the two years of its existence.

Since March, 1973, it has approved between 1,700 and 1,800 projects involving investments of D299m. (\$800m.) and creating 61,500 new job opportunities. This means that, in theory at least, API has more than doubled the annual targets set by the Fourth Plan.

Margaret Hughes



Girl working at the SOGITEX factory at Menzel Burguib.

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TUNISIA VI

Mining is a well-established industry in Tunisia, but has been allowed to become rather run-down with mines inefficient and ill-equipped. The recent increase in world phosphate prices should however do much to revitalise this sector. Overseas earnings from phosphates multiplied last year and there are plans to boost output.

Boost for phosphates

JUST AS higher world prices and phosphates in particular, pushed oil to the forefront of the Tunisian economy, so the late recent surge in phosphate prices 1960s the mines have been helping the minerals industry to regain its traditional role as a major export earner—and, hopefully, to revitalise it.

Compared with oil, mining is a well-established industry in Tunisia though this, ironically, is now proving to be something of a handicap. For while world phosphate prices remained depressed, Tunisia's mining industry was allowed to run down so that existing mines are largely outmoded and ill-equipped. With her mines operating well below peak efficiency Tunisia was thus unable to take full advantage of Morocco's moves in pushing up sharply the phosphate prices—from \$15 a ton to \$36.70 a ton in less than 18 months.

Even so export earnings from phosphate rock quadrupled last year to D46.84m. (\$94m.) against D11.1m. in 1973 and an average of D14m. a year during the Third Plan. At the same time export earnings from phosphate products tripled to D48.48m., although the quantities exported were in both cases only marginally above the 1973 level. Thus although Tunisian phosphate production—3.2m. tonnes last year and exports of 2.6m. tonnes—pales into insignificance alongside that of its Moroccan neighbour with an output of 20m. tonnes, it still represents a major source of foreign exchange earnings.

Phosphate production, not surprisingly perhaps, is controlled by the Government though the initial motivation for this was apparently more one of job preservation than any keen desire to keep mine earnings in Tunisian hands. For although historically mining, placed by a new mine complex currently under study at Ste Barba. The Moularet mine is already being replaced by a new mine in the M'rata uplands of Gafsa which has been built and equipped by Romanians. It produces around 1m. tonnes of phosphate annually for export about double the output of the former Moularet mine.

The chief new project being undertaken is the opening up of the Sebiba deposits in the south, where reserves are put at 60m. tonnes. Preliminary work on this development began in 1970 and some D19.5m. or \$7.1 per cent. of the phosphate sector's Plan allocation is being invested in this complex. The World Bank is also providing a loan of \$23.3m.

Facilities

The Sebiba mine is scheduled to come into production in 1980 when, it is envisaged, it will be providing 1.6m. tonnes of phosphate for export and generating \$40m. a year in foreign exchange earnings, as well as providing 1,200 new jobs.

Work currently in hand in the mining sector is aimed at stepping up output to 4.2m. tonnes this year, rising to 4.6m. tonnes in 1976 and to over 6m. tonnes in 1980 when Sebiba is in operation. Although somewhat less ambitious than original forecasts this estimate is a good deal more realistic and therefore more likely to be attained. Meanwhile Tunisia claims to have enough phosphate reserves to last another 100 years.

But perhaps more important is Tunisia's decision to put more emphasis on local processing of phosphate rock into phosphoric acid and then fertilisers. Economy Minister Mr. Abdulaziz Kassem reckons that if Tunisia processed 6m. tonnes of phosphate rock locally into phosphoric acid this would generate, at current prices, exports of about D14m. which would more than cover the current trade deficit.

In the past what processing that there has been was centred at the Sfax works of SIAPE—Société Industrielle d'Acide Phosphorique et d'Engrais—and NPK Engrais SAT. But these plants are now old and SIAPE especially (it was first

set up 25 years ago) is technologically outmoded. They produce mainly triple superphosphate available from the new finds in phosphate with a combined output of around 450,000 tonnes a year. The Fourth Plan foresees an expansion at SIAPE of 50,000 tonnes a year and one of 15,000 tonnes at NPK.

But most future developments will take place at the new ICM day complex—Industries Chimiques Maghrébines. The ICM fertiliser plant producing 1,000 tonnes a day of DAP 16-48-0 complex was opened at Gabès in 1972 when Tunisia's first phosphate plant came on stream. It will have a rated capacity of 120,000 tonnes a year destined entirely for export (as well as 340,000 tonnes of sulphuric acid). In its units and an 800 tonnes a day first year of operation it produced 82,000 tonnes and generated export earnings of over D680,000. Since then its output has been expanded, reaching 116,000 tonnes in 1974.

A second ICM unit, opened towards the end of last year, will supply the remainder of 230,000 tonnes a year and is expected to lift overall production of phosphate to 250,000 tonnes by 1976. This extension will also produce some 70,000 tonnes a year of triple superphosphate, which, with the expansion at SIAPE and NPK, will eventually bring triple superphosphate production up to 600,000 tonnes a year by 1976. Its sulphuric acid capacity is 500,000 tonnes a year.

Granulated

Tunisia also produces some hyperphosphate, but because it has had to switch production from the powdered form to the granulated product, which is more acceptable on export markets, its current output is only around 10,000 tonnes a year. However, new plant is being installed which should lift that output to 30,000 tonnes a year. Compound fertiliser production is also to be stepped up from 18,000 to 40,000 tonnes.

Tunisia's longer term plans in this sector are rather more ambitious. Proposals now under consideration for implementation at an unspecified date include a nitrogenous/phosphate fertiliser complex using locally

earnings, are having in an attempt to raise export levels. According to the Paris-based research organisation, Dupont, international phosphate prices have already fallen 33 per cent. at the beginning of the year and are expected to decline a further 10 per cent. over the coming months. Prices for some grades such as superphosphate, it claims, have dropped by as much as 50 per cent. from 1974. Tunisia is understood to have been among those producers offering substantial discounts of around 15 per cent. on rock sales.

Surplus The same organisation expects demand this year for phosphate rock to be about the same as 1974, at around 11m. tonnes, but supplies to be over 11.2m. tonnes. Thus phosphate has effectively moved overnight into a surplus situation, while some observers see this as just the beginning of a movement towards full fledged overcapacity.

Morocco as the chief exporter is holding firm on prices—and talking of further limited price rises in July. But even Morocco is said to be cutting back output of finished fertiliser and stockpiling increasing quantities of rock. It is unlikely that phosphate producers will return to the doldrums of a few years ago when prices had remained virtually unchanged for decades. But the setback could be enough to put a damper on Tunisia's plans to revitalise its mining industry.

The new buoyancy of the phosphate market has in any case put Tunisia's other mineral operation in the shade—namely iron ore deposits at Jerba and Tamera, lead mines in the north and her salt mines. But coming on stream this year will be a 12,000 tonnes a year aluminium fluoride plant aimed entirely at the export market using lime spar from the Zaghouan mines—a new departure for Tunisia.

Margaret Hughes

While oil production is miniscule in the world context, oil earnings are vital to Tunisia's hopes for economic development. As well as searching for new deposits and exploitation of gas reserves, the Government intends to promote local processing for export.

Oil industry

TUNISIA'S OIL industry may have little impact on world markets, but to the country's economy it is vital. Tunisia's oil production accounts for as little as 0.3 per cent. of total Middle East output. Yet for the past five years oil has been the main source of foreign exchange earnings—accounting last year for 34.4 per cent. of exports. Then Tunisia has high hopes for natural gas fields discovered offshore a few weeks ago, which could provide a valuable new energy source and a booster for industrial development.

The importance of oil in the economy is largely, of course, the result of the surge in world prices which has transformed the earnings potential of Tunisia's fairly modest oil reserves. So that although the amount exported last year was virtually unchanged from the 1973 level of 3.7m. tonnes, earnings tripled to D136.9m. (\$274m.).

Libya and Algeria, Tunisia's rich neighbours, produced only 4m. tonnes of oil last year. Its oil industry is young—the first find was made in 1964 when ENI struck oil at El Borma to the south, near the Algerian border. This first field was brought into production in 1966, since when the Government has exercised its right to take a 50 per cent. stake.

But although it was until quite recently the main domestic source of oil, El Borma has never been a big producer by world standards and is already past its peak. Output, which rose from an initial 624,505 tonnes a year to a peak of 3.8m. tonnes in 1972, is only expected to reach 1.7m. tonnes this year. By the end of 1974 El Borma had produced a total of 27m. tonnes of crude and even on the most optimistic forecasts will only remain productive for another 25 years. A particular drawback of El Borma is that it has been plagued by loss of pressure, though efforts are being made, with the help of Algerian oil experts, to overcome this problem.

Fortunately, there have been other finds. A second field was discovered in 1966 by Aquitaine considerable boost to the economy from oil sales, the Borma at El Douieb and brought into production two years later, stimulate new projects to along with the smaller Tamesmida field. These fields, which are the only ones in which the Government does not have a 50 per cent. stake, are operated by local processing. Then, he Société de Recherches et d'Exploitation des Pétroles on Government. As well as stepping up its own investment in the oil sector the Government has introduced both fiscal and legal incentives to encourage participation by foreign oil companies. As a result the 155,000 tonnes to overall output covered by concessions has to this year, as is Sidi L'Alayem, the field discovered by CFP in 1971 and started up in 1972. Although the output target of this field has been set at 500,000 tonnes a year the highest annual production so far has been 200,000 tonnes and will be rather short of that in the current year.

But these are small-time compared with the promising Ahstari oil strike of 1971 in a concession held by Aquitaine and Elf/ERAP off the Gulf of Gabès near the Kerkennah Isles. Involving Aquitaine, CFP and This field, although more costly to develop simply because it is among those currently holding offshore, and with a limited prospecting licence, is Shell export value due to its high Sulphur content, has proved to be more potential than first anticipated. Put into operation in December 1973, its output is expected to reach 2.5m. tonnes this year.

A still more recent discovery, also offshore, by a consortium of Agip, Shell, Enioco and CFP, is the Isis field, off present capital, but which will probably be brought into production in 1976. These successful offshore discoveries have stimulated new interest in Tunisia's oil potential, accelerating exploration programmes both on and off the coast. Since 1970 oil exploration other fields are also being until then relatively low key. In Tunisia, has been given much higher priority by the much Algerian part of world oil.

CONTINUED ON NEXT PAGE

TUNISIA VII

Apart from years of war, pestilence and flood, Tunisia has enjoyed a remarkable growth in its tourist industry since 1961. As well as having a beautiful country with a rich cultural heritage, the industry has been generally well managed.

Tourism growth

TUNISIA'S tourist industry is a young and vigorous one. Endowed with many of the qualities which, increasingly, appear to determine the demand in what has become a fiercely and for some a fatally competitive industry, Tunisia has capitalised with considerable success on recent world trends.

Growth rates have been remarkable by world standards. In the years from 1961-1973 total arrivals grew at a rate of very nearly 30 per cent a year while visitor bednights averaged an annual growth rate of 32 per cent, which, compared with the rest of the Mediterranean, is three times as high. This cumulative growth is all the more remarkable for the fact that, in between the crests, the growth curve has manifested some steep declines due, largely, to exceptional factors such as the 1967 and 1973 Middle East wars, general political uncertainty and the floods and the cholera epidemic of 1969 and 1970.

Self-critical

There are several reasons for this growth—partly natural, partly managerial. Tunisia is a place of great beauty. Its coastline has some fine beaches while, in the south of the country, the desert and its oasis are an equally important though not quite so well exploited attraction. Tunisia also has a rich cultural heritage which can compete effectively with those of its immediate neighbours. Equally the industry is generally well managed by a new administration which appears, on the one hand, to have judged the nature of its market reasonably well and, on the other, is now sufficiently self-critical to adapt its investment and development programmes to the needs of a changing market.

A high level of administrative expertise is vital in this industry which accounts for the largest single contribution to Tunisia's foreign exchange earnings. Having risen from D1.5m. in 1961 to D67.4m. in 1972 (contributing some 21.4 per cent to foreign exchange earnings in that year) they stood at D80.87m. (\$183.6m.) in 1974, which, after a bad year in 1973, was essentially a year of stabilisation in preparation for the current year when receipts are expected to rise by some 20 per cent.

These, however, are gross receipts which do not take into account the considerable volume of imported goods, services and capital equipment required for maintenance and upkeep. Net receipts in 1972 were estimated to have risen to 70 per cent of the gross (DM67.4m.) from less than 50 per cent ten years ago. One of the chief problems of which makes tourism such an



Part of Tunis' Souk.

expensive industry to run is the serious lack of the necessary infrastructure and support services. But this is steadily improving and, given the right level of investment for a sustained period, should produce a situation where the industry's net contribution to the balance of payments is of a much higher order.

Investment in tourism (both State and private) as well as investment in allied services and the necessary support infrastructure, is considerable (as a proportion of total fixed investment it has hovered around 12 per cent since 1964) and is expected to reach D148.8m. by 1976 of which D100m. is expected to come from the private sector.

Visitors to Tunisia are mostly from Europe with West Germany (21.7 per cent of the total) topping the list, France (19.5) second and the U.K. third with 18.1 per cent and rising. Visitors are, in the main, middle-income and, with an average length of stay of around ten days largely arrive by air.

One of the chief problems of which makes tourism such an

increasing the competitiveness of Tunisian tourism and improving the quality of services are being undertaken.

Under the Fourth Plan four new tourism schools are planned plus three new training centres to add to the existing three and a greater effort is to be made to provide staff destined for senior jobs with training abroad. At present, according to ONTT, there is a deficit of some 1,000 hotel staff at all levels and, clearly, if the objectives of increasing beds available to nearly 84,000 to cope with the expected 1.3m. visitors by 1976 are to be achieved, then a considerable effort needs to be made.

Services

So far as infrastructure is concerned—water, transport, foodstuffs and consumer goods—the problem is, perhaps, more general and needs to be set against the wider backdrop of the integrated development of the rest of the economy. This problem, along with that of broadening the appeal of Tunisian tourism by providing a greater variety of services, should really be taken together and the signs are that the ONTT is clearly aware of the need for a coherent development of the industry as a whole. Plans for the development of casinos, leisure centres, golf clubs and a greater variety of tours within the country are currently under study and the Government is confident that these can be grafted on to existing programmes.

Projected Government investments in the Fourth Plan were D48.5m. (with D3.4m. for leisure infrastructure, D4.7m. for promotion and marketing and D23m. for infrastructure as a whole), though this is likely to be exceeded following the reassessment of its general strategy.

A major effort is also going to be made aimed at foreign capital markets to provide capital both for continued hotel investment (the larger requirements of which are beyond the local market, partly, in fact, due to the relatively uncompetitive terms of credit offered) and to give the necessary financial impetus to the infrastructural programme, whose implementation should assure Tunisian tourism of continued growth and the Tunisian exchequer of a growing supply of valuable hard currency.

Alain Cass

Anomaly

This is something which officials are aware of and some effort is being made in the context of the current Fourth Plan (1973-76) and the forthcoming Fifth Plan to remedy an anomaly which may have been marginally responsible for the recent downturn in tourism activity.

Under the direction of the Office National du Tourisme et du Thermalisme (ONTT), which comes under the wing of the Ministry of the Economy, several new projects aimed at

Oil

CONTINUED FROM PREVIOUS PAGE

Tunisia's only refinery at Bizerta for refining to supply the domestic market—refining for domestic needs is subsidised by the government to the tune of around D50m.

The Bizerta refinery, which was built by the ENI offshoot Snam Progetti in the early 1960s, has a throughput of 1.2m. tonnes, processing some grades imported from the Middle East as well as domestic crude. It is operated by Société Tunisienne Raffinage (STIR). Under the Fourth Plan its capacity is to be nearly doubled, while a second refinery with an eventual capacity of 10m. to 12m. tonnes a year is to be built at Gabes. It is expected to come on stream in 1978 when it will probably have a capacity of 3m. tonnes a year.

Most of the financing for this project, estimated at D70m., is to be provided by the Government which has set aside D188.5m. from its total Plan allocation for industry of D382.7m. (against D211m. in the Third Plan) for development of the energy sector. Some D64.1m. of this is to be spent on exploration, D22.7m. on developing existing wells and D23.5m. on expanding refining capacity.

The Gabes refinery is intended eventually to form the basis of a new D100m. petrochemical complex. By 1978/79 Tunisia expects to have some 1m. tonnes of naphtha available from Gabes. This will be processed in a steam cracking unit to be built at the Gabes complex to produce 300,000 tonnes a year of ethylene, together with propylene, butane and other by-products.

Some 145,000 tonnes of ethylene will then be used as a feedstock for a proposed 140,000 tonnes a year low density polyethylene unit. The remaining ethylene produced will be exported.

The second stage of the chemicals complex will comprise a pyrolysis unit to produce benzene which, with ethylene, will be used for the production

of styrene. This will be further processed into polystyrene to form with ethylene the core of a synthetic fibres operation. Tunisia plans to invest a further D17m. in constructing a 7,500 tonnes a year polyester unit and an 8,500 tonnes a year plant for the production of acrylic fibres, with 9,500 tonnes a year of the combined output destined for export markets.

Tunisia has few illusions about joining the big oil producers club, but at the same time is clearly intent on making the most of what oil it does have. The main question mark hanging over its ambitious petrochemical plans is the time taken to put them into effect—so far there are no projected completion dates.

Much will obviously depend on the finance available and so, indirectly, the course of future oil earnings. World demand has already fallen back sharply since the quadrupling of prices. And Mideast producers, led by the Shah of Iran are now talking of a further 25 per cent increase later this year.

In any event Tunisians are currently rather more excited by the prospect of a new energy source—natural gas. This follows the discovery a few weeks ago by Aquitaine Tunisie and ELF/ERAP of three offshore gas fields near the Kerkennah Isles in the Gulf of Gabes—Miskar, Elyssa and Azdubel, all names taken from Punic mythology.

So far only one well has been drilled in each field so that accurate assessments are difficult, but first estimates put gas reserves at 60bn. cubic metres. This compares with 2,000bn. cubic metres of Algeria's R'Mel field, but looks rather better set against Tunisia's former oil reserves of around 8bn. cubic metres.

There is a small field at Djebel Abderrahmane brought into production by SEREPT in 1954 and supplying some 10m. cubic metres annually to the Tunis area; gas has also been discovered at the Douleb oil

field by SEREPT, this time in partnership with Aquitaine Tunisie. El Borna also contains gas and a project is now under way to raise the capacity of the gas pipe running to the Gabes complex to 300m. cubic metres a year.

The offshore oil fields also contain significant quantities of gas but the Isis field has yet to be brought into production, while at Ashtart some 200m. cubic metres of gas is burnt off each year. For the moment it is not economically feasible to bring the gas onshore and this will be the main problem in developing the much larger new fields. In the first place development work will cost two to four times as much as it would onshore, while a gas pipeline or other means of transport will have to be constructed from scratch.

But if the new fields come up to expectations it seems almost certain that they will be developed. The main attraction will be the energy available for the new industries which Tunisia is so anxious to set up—the gas would be particularly valuable for sponge iron projects such as the \$55m. venture to be undertaken at Gabes in a three-way deal involving West German, Japanese and Brazilian interests. The gas would also provide a domestic source of ammonia for the compound fertiliser production which Tunisia aims to enter. Mr. Lasram considers that the new gas deposits are large enough to meet domestic needs for at least 20 years.

The new fields would supplement the supplies which Tunisia has secured starting in 1978 from the pipeline crossing Tunisia carrying Algerian gas to Italy. These supplies could, however, be in jeopardy, or at least subject to delay, because Algeria and Italy are in dispute over the price to be paid for the gas—so that Tunisia's new offshore finds may well prove more vital than first supposed.

Margaret Hughes

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Visitors	52,752	780,350	721,897	716,003
Bednights	395,777	6.8m.	5.8m.	5.6m.
Average stay (days)	7.5	8.7	8.1	7.9
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ROUEN: C/O Worms et Cie Maritime et Charbonnière	NICE: C. M. Powllews
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TUNISIA VIII

Long periods of drought are a constant headache
for the farmer but in a country where half the population
lives on the land there is concern that agriculture's contribution
to the national economy has fallen below 20 per cent. and
new efforts are being made to boost productivity.

Agriculture

HALF THE population of the southern Sahara were
Tunisia lives on the land, tapped. Recently its contribution to the
national income has shrunk to
less than 20 per cent. of the
total, and this proportion
appears to be shrinking even
though the agricultural popula-
tion is increasing steadily. At
the same time climatic condi-
tions are erratic giving rise to
long, dry spells (such as the one
experienced from 1967 to 1969)
which can literally make or
break agricultural output in
any given year. This, in turn,
has a central effect upon the
overall performance of the
economy as a whole.

Like most developing coun-
tries where agriculture has
played a significant if not a
central role, Tunisia has,
because of these conditions,
been trying hard to maximise
its agricultural return while at
the same time reducing its
dependence on a sector whose
performance is, at best,
unpredictable.

The country divides more or
less naturally into three broad
areas for the purposes of agri-
cultural potential. The area to
the north of the Dorsal Chain
contains the most fertile lands;
indeed, the only ones capable
of supporting a range of rainfed
crops and pastures, with an
average rainfall above 400mm.

These areas produce virtually
all the country's citrus fruits
and grapes, two-thirds of its
cereals, two-thirds of vegetables
and milk and over a third of
the livestock and fish. The
central area, roughly situated
between the Dorsal Chain and
the Gafsa range to the south,
has an average rainfall of
around half that of the more
fertile areas to the north and
supports mostly the raising of
sheep and goats, though not on
a very intensive level, and tree
crops mostly in the form of
olives. There is also some cereal
production. Farther south, in
the third of the three broad
areas, where rainfall is below
200 mm., vegetables, date palms
and olives are grown in oases.
Here again the margin between
success and failure depends on
as little as a few millimetres of
rain.

The problem of rain is of
course central and the Tunisian
farmer, for many years
neglected by the central gov-
ernment, has tried to overcome
it through a primitive and only
half-effective system of irriga-
tion channels and individual
wells. The point is that too
much water can be as bad as
too little. A bad flood or a series
of rainstorms at harvest time
can prove disastrous and the
problem of soil erosion, for
example, is as serious as that
of water conservation.

Irrigation

Over the last decade or so sig-
nificant amounts of money have
been poured into irrigation
works though, for the time
being, the total irrigated acre-
age is limited to no more than
80,000 ha. out of an overall
acreage under cultivation of
4.2m. ha.

Recent studies suggest that
the maximum area which could
be converted to irrigated land is
up to 200,000 ha. most of which
is located in the northern area
of the country. In fact, since
independence the volume of
irrigable land has only increased
by 45,000 ha. though much of
this extra acreage is technically
irrigable thanks only to large
and costly hydraulic investment
by the Government. In 1975
some D10m. has been set aside
for further such projects. In
the nine years to 1971 expendi-
ture was D80.6m. of which
three quarters was by the State.
D13.7m. from foreign aid and
D2.1m. from private sources. In
all, irrigation has absorbed over
40 per cent. of public investment
in agriculture.

Other possible sources of
water are the underground re-
sources of the Sahara, and it is
contended that a further 10,000
ha. could be exploited if those

Meanwhile, a number of
small and medium size dams
are being constructed with out-
side aid to overcome, basically,
the fact that there is only one
all year round waterway in the
country—the Medjerda. The
Medjerda is a good example of
the way in which the water
supply can veer from one ex-
treme to the other. Its flow
ranges from 400 cubic metres
in the winter to less than 10
cubic metres in the summer.
The other water-fed basin, the
Zouroud, also registers similar
extremes of behaviour, run-
ning dry for most of the year
but during heavy rains rising to
flood tide and literally cutting
off villages and large towns in-
terlocked in the complex web of
its tributaries.

Dams

Following the recent visit to
Tunisia of Mr. Alexei Kosygin,
the Soviet Prime Minister, two
new dams are planned, with
Russian assistance and finance
and a third financed by the Abu
Dhabi Fund for Arab Economic
Development.

One of the chief problems,
however, which the Tunisian
Government is urgently trying
to sort out is the continuing
and, for a country with rela-
tively limited agricultural
resources, very serious under-
utilisation of water resources
and therefore of land.

According to studies done by
the Ministère du Plan (in 1973)
less than one-quarter of the
water available from large dams
(191m. cubic metres) is used,
only half of that from deep wells
though the proportion for
pumped water, artesian wells
and treated sewerage is con-
siderable better with an average
utilisation factor of 98.5 per
cent. Chiefly this appears to be
due to a lack of experience
among farmers, a lack of funds
for smaller farmers and labour
for bigger landowners, an in-
adequate infrastructure and an
unwieldy land tenure system.

Tunisia is now, with the help
of the World Bank and others,
making a major effort to make
improvements, maximise agri-
cultural production and halt the
debilitating rural exodus
towards the bright lights of
Tunis and the coastal towns. The
aim in the medium-term is to
increase agriculture's share of
GDP from the existing 18 per
cent. to 22 per cent. to around
30 per cent. This must be
regarded as a vital priority in
the effort to mop up the vast
under-employment in the sector.

It is hoped that the olive oil
sector which has happily turned
in record results recently to
swell the Treasury's coffers will
increase its potential even
further adding 20m. trees to the
existing 50m. with a capacity of
250,000 or even 300,000 tonnes
to Tunisia's biggest olive oil
exporter.

Investment as a whole in
agriculture has been fairly
intensive with actual outlays
reaching, overall, around 80 per
cent. of planned investment as
outlined in the Perspectives
Decennales. In some areas,
chiefly the planting of olive
trees, fisheries and forestation
and erosion control, investment
has handsomely surpassed
targets. In machinery and
equipment, however, only D43m.
of a projected D63m. invest-
ment was possible and this is
one of the fields where the
Government can be expected to
direct much of its efforts in the
near future as its drive to
industrialise agricultural pro-
duction gets under way.

Agriculture in Tunisia is for
home consumption with no
more than 15 or 20 per cent.
of production going for export.
All the olive oil production is
exported, citrus fruits and vege-
tables, some wine, and about
D4m. worth of food industry
products. One of the current
year's more remarkable achieve-



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AGRICULTURAL IMPORTS AND EXPORTS BY SECTOR

	Exports		Imports	
	1968-72* m.D. %	1969-71* m.D. %	1968-72* m.D. %	1969-71* m.D. %
Livestock products	0.9 3	2.1 6	1.6 7	5.6 13
Fish	0.3 1	0.9 3	—	0.1 —
Cereals	3.3 11	0.5 1	9.8 45	15.3 37
Fruits/vegetables	3.3 11	4.6 20	1.2 6	1.3 3
Edible oils/fats	9.6 31	14.7 44	0.3 1	7.4 18
Wine	7.7 25	3.1 9	—	—
Food industry	3.2 10	2.8 11	0.8 4	0.9 2
Sugar	—	—	3.1 14	4.8 12
Spices, coffee, etc.	—	—	2.5 12	3.1 8
Other	2.5 8	1.9 6	2.4 11	2.8 7
Total	30.8 100	33.6 100	21.7 100	41.5 100

* Annual Averages
Source: Ministry of Planning

هذا من الدول

Why the record industry is in a spin

BY ANTONY THORNCROFT

THE RECORD industry lives off illusions. Experience suggests that any one of the 45 singles released in the past week could, against all reason, become a hit. Look at the current best seller, *Whispering Grass*, an old war-time song revived by EMI and sung by television personalities Windsor Davies and Don Estelle. It is well on its way to selling 300,000 copies and considerably improving the profitability of the largest record company in the country.

But another illusion—that the record industry is recession-proof—is being sorely tested. Just as in the austere 1940s the public flocked to the cinema regardless, the assumption was that, whatever happened to the economy, records, with their ability to lift the spirits would continue to sell well. It has not worked out quite like that.

The record (and tapes) industry was probably misled by its success in recent years, especially 1973 when sales rose by almost a quarter to around £138m. Last year there was a slow-down in growth but turnover still touched £160m. This year the higher retail prices will push up the total take, but real growth may be negligible and many companies will see squallier profits.

Redundancies

There have been redundancies among the major companies while some of the smaller independents, which have proliferated in recent years, are allowing themselves to be taken over. Last week Granada acquired Transatlantic, one of the more prosperous of the parvenus, while B. and C. Charisma has been split, with the weaker side, B. and C. going to Saga, and Charisma

retaining its independence but now licensing its records to Phonogram, the Philips-Siemens subsidiary.

It may well be that, rather than the public's being disenchanted with buying records, the retailers, worried about cash flow, are ordering less stock. But this is of little comfort to record companies, hit by rising costs and concerned that recent—and proposed—price rises will deter purchasers in what is very much an impulse market.

There is a ray of hope: the public frenzy surrounding the Bay City Rollers. Their last single remained in first place in the best-seller charts for six weeks, the longest time that any record has held that position for four years. In all it is approaching sales of 800,000, a very high figure these days for a number one (you can reach the top and sell less than 250,000 copies). But commercially more satisfying for the group's record label, Bell, is that fact that their album has sold 300,000 copies in two months.

Merchandise

This kind of off-take is reminiscent of the Beatles and there are optimists in the record industry who see the Bay City Rollers giving record sales generally the kind of fillip that the Beatles set in motion. In one area—merchandise, from scarves to trousers, sponsored by the group—the Rollers have stimulated sales barely scratched by the Beatles. Artists Services, the company that has the franchise for the Bay City Rollers (as well as the Osmonds), expects to sell £1m. worth of bits and pieces this year, with the group taking a 5 per cent. royalty.

Perhaps the most distinctive



The Bay City Rollers (left) represent a ray of hope for the industry with almost 800,000 copies of their current single sold. Elton John (right) makes sure most of his earnings stay abroad, costing the U.K. well over £1m. this year alone.

feature of the Bay City Rollers is that they record for Bell, an American company owned by Columbia Pictures. Only a handful of people work for Bell in London. Yet for the past two years, through artists like Gary Glitter and Showaddywaddy, it has sold more singles than any other record company. Bell epitomises the transformation in the record industry in recent years—the big companies like EMI, Decca and Pye remain supreme in the manufacture and distribution of records but most of the leading artists and producers work quite independently.

So, for a price, EMI presses records and distributes them for Bell, but the smaller operation creates the sounds and looks after the actual selling. This removes EMI from any risk but it does mean that its profit margin is less. Another

common practice is a licensing agreement whereby EMI, say, buys the original tapes from the production company and is responsible for the manufacture, distribution and selling.

Licensing deals with companies like Tamla-Motown, MCA, Elektra-Asylum and RAR are very important to EMI, but it has just lost the Tamla business and Elektra-Asylum comes up for renewal later in the year. Fortunately for EMI it still has Paul McCartney under contract and a new McCartney album is coming out soon, with an initial order of 150,000. McCartney, probably, does not produce much profit these days for EMI, but he is a useful heavyweight with which to persuade retailers to stock extra EMI records.

Although the major companies will continue to rely on outsiders for material (at least

in the pop field) they may let EMI look after around 40 per cent. of the financial trauma affecting the industry through the hiccup in sales. Some of the independents over-extended themselves, especially in establishing large sales forces. Like Charisma, they will retrench and lean on the majors again.

And yet Island, probably the most successful of the independents, is pushing ahead with its final step towards autonomy. Later this month it starts pressing its own records. It will have an eventual capacity of 6.5m. albums a year but will still place orders elsewhere, and expects other record companies to use its facilities. For one of the secrets of success in this industry is to spread your options. Island, for example, could now look after all its own distribution but it prefers to

push ahead with its £450,000 investment in plant is that 70 per cent of its income is from overseas. This is the other great rule for record success. A company can produce a string of best selling singles in its first year of existence and yet stay worried because it has yet to break artists overseas. As Robin Britten, manager of the Hollies, who has just set up his own record label, RCB, points out, the price differentials mean that every record sold in West Germany is worth two and a half times the same record sold here.

Dick James of DJM, who has Elton John, the world's best selling album artist on his books, reckons he has got it about right with 85 per cent. of his revenue found abroad. In the U.S. the latest Elton John album had orders for 1m. copies before it reached the shops, and became the first record to go straight to the top of the album charts. All told Elton John will sell up to 15m. albums this year world-wide, which, at retail value, will be worth over £50m.

Unfortunately, little of this money will come back to the U.K. For many artists, song writers, and even record producers are being driven abroad by Britain's very high taxation levels. Elton John has not yet completely abandoned the U.K., as the Rolling Stones have, but he makes sure that most of his earnings accrue overseas. The British Government must lose well over £1m. this year from Elton John alone through its tough tax policy and many in the record industry see the British influence over international pop music, a domination which brings almost £100m. a year back to this country in royalties and taxable income, threatened by our penal tax rates.

But with nine out of ten records released doomed for failure the penalties of success are not everyone's problem. This year could see widely differing experiences for the companies in what has become an extremely competitive industry. Some are putting their faith in heavy advertising campaigns on television. Thus Phonogram has done very well recently by advertising a Stylistics album on the screen. This year the television contractors should receive about £3.5m. for promoting records.

Other companies have started to wheel and deal with the retail trade. The control of the record retailer has weakened, and organisations like Record Merchandisers, owned by EMI, Decca, Pye, and the Polydor group, have succeeded in introducing albums into a much broader range of outlets on a sale and return basis. Now groups like Boots, W. H. Smith and P. W. Woolworth account for over half the record retailing business and, by indulging in a competitive price war, have helped to maintain the overall level of record sales above that of last year.

It will do the record industry no harm to work harder for its money, and it is about time the pendulum swung back slightly in favour of the big international companies, who see the U.K. as the spawning ground for talent but appreciate that most of the profits lie in North America, which accounts for well over 50 per cent. of world record sales. Some of the independents will have to be lucky or efficient to survive, but they will keep going in the awareness that, in this unpredictable business, they might have under contract the group that will take over from the Bay City Rollers in the affections of the country's teenage girls in 1976.

Letters to the Editor

Attract foreign investment

From the Group Economist, Ocean Transport and Trading.

Sir,—The National Institute has forecast a continuing decline for sterling and there are journalists who advocate devaluation as part of a positive policy to encourage exports. But let us consider what the effect of a lower-value pound would be on a workable counter-inflation policy and the more general need to strengthen the British economy.

Inflation is caused by an excess of demand over supply. The cure is twofold: to reduce demand by incomes policy and public expenditure, and to increase supply by greater use of existing resources and a policy which encourages investment. The latter is the key to any medium-term policy of "regenerating" British industry. But investment must be financed by real savings. To the extent that devaluation reduces real incomes through the higher cost of imported goods savings will decline if people attempt to maintain real spending: this declining level of savings will finance an even lower level of investment to the extent that investment goods must be imported. (This leaves aside the possibility that domestic prices and money incomes will rise to the extent of the devaluation, since this would simply frustrate the purpose of devaluing and lead to accelerating inflation.)

Shortfall

The ensuing shortfall in real savings relative to investment has to be made up by borrowing abroad. But the saving and investment repayment of international debt and profits remitted on foreign investment in this country claim an increasing share of our domestic output to the extent that the pound devalues relative to the foreign currencies in which the borrowing is incurred.

We need more foreign investment anyway, since with present growth rates our economy simply does not generate sufficient savings to finance the levels of investment achieved in some of our EEC partners. One of the mistakes of post-war policy, it seems to me, has been too much emphasis on balancing the current account. But we can't have both export and investment increases and an improving balance of trade to the levels deemed desirable for each of these things seen in isolation.

Medium-term policy should be directed towards encouraging industrial investment not just by domestic enterprise but by as many foreign companies as we can attract here. (There may be undesirable features of multinational business, a tooth that should be put right but let us stop castigating it per se.) The resultant inflows of foreign capital will help to strengthen the pound and raise living standards in this country.

Short term policy should be directed to marshalling the international funds possible to support the pound at its present level. If sterling continues to slide, it could develop into an uncontrollable plunge into nothingness. Even a controlled decline in sterling seems likely to regenerate import cost pressures to the point where incomes restraint is impossible. We won't get to the stage of hyperinflation. But we could get so close to it next year that the rescue process would involve the liquidation of our domestic policies by

Unparalleled opportunity

From Mr. P. Franklin.

Sir,—Whatever the causes of inflation, several economic facts appear to be in less dispute. It can be convincingly argued, for example, that the share of national income going to wages has been continuously increasing since 1945. One estimate shows pre-tax profits as a percentage of income from employment plus these profits themselves, to have fallen from 38 per cent. in 1950 to 26 per cent. in 1970. And it can also be easily shown that the rate of growth of GDP in the U.K. has consistently lagged behind those of its European competitors, as has gross fixed investment.

Currently, perhaps, the economy is experiencing even less happiness than its competitors, and is suffering in ways and degrees not recently seen. Falling investment intentions, increasing unemployment and under-utilisation of plant and capacity, are visible symptoms of a more general malaise—a lack of confidence, and a preference for less risky commercial ventures.

These problems and this lack of confidence, however, and the indication that we have not invested sufficiently, have been turned by some into an indictment of the capitalist system itself. That is, if entrepreneurs are unable or unwilling to invest and re-invest, then it is argued that the government should.

A mere increase in the quantity of investment, however, is unlikely to improve significantly our economic performance, for it is the quality and strategy of investment, as well as its volume which is important and which must be more seriously considered.

For these reasons, the present slump provides management, government and organised labour with an almost unparalleled opportunity in effecting a restructuring of British industry, in that the present investment impasse should not be viewed entirely negatively and with dismay, but used by management and government in concert, to reconsider priorities and economic objectives, industry by industry, sector by sector, and for the economy as a whole.

Some may accuse this approach of being too laissez-faire, or even naïve: unemployment, however short-lived, either of labour or capital, being a social waste of scarce economic resources. But to employ either for their own sakes has surely been proven as barren and equally wasteful—overmanning itself resulting in uncompetitive goods, conflict between management and labour, and a pool of disguised unemployment.

Guardians

In a society and economy where high rates of inflation seem endemic and profit acrimonious, however, such traditional investment attitudes are understandable. But, if industry is independently to meet the challenge of the near future, and not be pre-empted by closer direct control by government of its activities, then capital investment must be stimulated and influenced by an even more critical attitude on the part of the institutions: acting, perhaps, as guardians of capitalism itself.

The opportunity for a general and fundamental critical reappraisal of our society's priorities, objectives and methods is now available. Short term and partial political and economic expediency (of the lame-duck type) can be subordinated to longer and more general considerations affecting society and the economy. For example, a national reconstruction plan. And the purposive evolution of a more exhaustive social contract between the three centres of power also seems possible if one takes an optimistic view of the referendum decision. Indeed, an effective and acceptable national regeneration within a mixed economy and pluralist society can and must be made to work. And it can begin now.

Peter J. Franklin, City of London Polytechnic, School of Business Studies, 84 Moorfields, EC2.

Basic chemicals investment

From Mr. J.E. Modig.

Sir,—Mr. Ray Dafer (June 4) on the investment outlook for the U.K. basic chemical industry makes timely reading as the industry is hesitantly weighing the bleak present and near-term against the hopeful long-term. His comment on the (stated) efforts within the industry to "break the persistent trade cycle and invest during the depression" could have been more intelligible. The chemical industry's investments have almost always been for long-term reasons, counter-cyclical. Investment decisions, however, are usually made at the business peaks.

As chemical products are maturing, producers—as a group—will experience large profits only in periods of severe supply or capacity shortages. Such situations may occur due to generally unexpected (not necessarily unforeseeable) developments, like the sudden commodity inventory speculation in

expectation of further price increases as in 1973-74. Producers can also themselves invest in holding moves to increase capacity. Sooner or later general economic growth rate will push demand, against capacity limits. Most producers are sometimes a few years in advance of then go ahead with plant expansion projects. These projects hold promises of increased economies to scale (lower investment cost per unit output) and better operating efficiency (lower operating cost per unit output). The most eager, major producer starts and the rest of industry quickly follows in fear of otherwise one day being squeezed by lower prices without ability to increase sales volume. It is therefore understandable, and even laudable, for chemical producers as a group, that expansion decisions are made during boom years. New plant capacity will come into operation a few years later when the business cycle might be at a low. These capacity expansions in themselves will postpone the period during which the chemical industry earns the big profit.

It should be noted that economies of newer chemical plants differ from the above scenario in that these products start from very high price levels and with sales growth patterns largely independent from the general business trend and cycle. Major U.K. producers intend to expand their capacity to meet the opportunities in newer chemicals.

Very soon if not already, U.K. producers must face up to the certain and huge entry into basic chemicals by the other EEC countries. Will they not take the U.K. export markets and be formidable competitors in the domestic markets as well? The competitive strategy for the individual firm in this industry is exceedingly difficult to formulate. The annual report of the NEDO Process Plant Working Party, which usually appears in June or July, will hopefully help outsiders to better understand the industry's present thinking as to the most suitable long-term strategy.

Jan-Erik Modig, Consulting for Management, 66, Salisbury Road, Watlington, Oxon, OX9 3JL, U.S.

Expensive breeze

From Mr. G. Jennings.

Sir,—During the past few months, the general public, industry and commerce have been bombarded with exhortations to conserve energy. Nationwide publicity has rightly extolled the advantages of improved insulation, etc.

Yet, on the industrial/commercial side of life, I cannot recall seeing any reference to that most obvious cause of wasted energy—the open door. I must confess a vested interest in that my company pioneered air curtains for open doorways some 20 years ago but my case is none the less valid for that. With an inside temperature of 65 degrees F and an outside temperature of 30 degrees F and air entering at 500 ft./min., the total heat loss for a 10 ft. x 10 ft. doorway is a staggering 1,800,000 Btu/h., representing approximately 114 gallons of fuel oil or 1715 feet of natural gas. Readers will know what this means in hard cash!

G. E. Jennings, Minikay, Mansel House, 1072, High Road, Chadwell Heath, Romford, Essex.

To-day's Events

GENERAL
EEC Finance Ministers Council meeting takes place in Luxembourg and Ministers also attend annual meeting of Board of Governors of European Investment Bank.
National and Local Government Officers Association representatives meet employers for pay talks.
Amalgamated Union of Engineering Workers national conference, begins, Hastings.
Union of Post Office Workers gives evidence to Select Committee on Nationalised Industries, House of Commons.

Mr. John Anster, president and chairman of National Savings Committee, speaks at City of London Savings Committee reception, Mansion House, London.
Queen and Duke of Edinburgh attend service for Order of the Garter, St. George's Chapel, Windsor.

PARLIAMENTARY BUSINESS
House of Commons: Debate on housing; British Leyland Bill, remaining stages.

House of Lords: Policyholders Protection Bill, report.
OFFICIAL STATISTICS
Provisional retail trade figures (May).
Turnover of catering trades (April).
ARTS
Art exhibition, corresponding with 800th anniversary festivities of Chichester Cathedral, opens. Works will be exhibited in former Chichester Electric Theatre in Northgate.

Poetry Book Society's annual poetry festival begins, Institute of Contemporary Arts, Nash House, The Mall, and at Elizabeth Hall, London.
Members of London Philharmonic and London Symphony Orchestras give short late-night concert to inaugurate Henry Wood Hall, Southwark, London.
COMPANY RESULTS
Bulmer and Lamb (Holdings) (full year).
Comet Radiovision Services (half year).
COMPANY MEETINGS
See week's Financial Diary on page 9.

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COMPANY NEWS + COMMENT

Ever Ready looks overseas for growth

UNTIL Government policies change and Union attitudes alter, real growth in the U.K. operations of Ever Ready Company (Holdings) is likely to be limited, declares the chairman, Mr. L. W. Orchard.

But overseas the picture is better, and the company is currently extending and strengthening its overseas marketing and selling operations in carefully selected areas.

Capital commitments have been trimmed in line with current requirements and share price has risen from £6.50 to £9.00 at March 31, 1975. By the end of the current year they will show a further fall, says Mr. Orchard.

As reported on May 21 with details of an £8.5m rights issue, group pre-tax profit for the past year decreased marginally from £12.53m to £12.35m, the dividend is raised from 2.54p to 3.19p net, and maintenance of that rate on the capital as increased by the issue is forecast for the current year.

Although sales generated by the home companies increased from £51.4m to £61m, profits from them decreased from £7.7m to £5.6m, a "totally inadequate" profit of 9.2 per cent, says Mr. Orchard.

Overseas operations helped to redress the balance with profits up from £5.35m to £6.1m, on sales of £42.9m (£37.8m) or 14.3 per cent.

The chairman emphasises that, with the current rate of inflation in the British economy, to maintain the future long-term viability of the business, a profit on sales of at least 20 per cent, is needed, and a return on capital employed of at least 27.5 per cent.

At present the company is not permitted to achieve those targets in the U.K. due primarily to price control restrictions.

Exports from the U.K. increased from £15.3m to £22.6m, but a cost level has now been reached where further expansion in export sales is in jeopardy.

"There are signs that we are beginning to price ourselves out of some of our traditional markets," the chairman adds.

An analysis of turnover (in percentages) and trading profit of £11.47m, shows battery and allied activities—U.K. 40 and £22m; rest of Europe 27 and £23m; Africa 14 and £23m. Other U.K. activities contributed 19 and £1.1m.

Two directors waived remuneration totalling £41,557 (£32,828).

Meeting, Whitestone, N. July 16, noon.

● **comment**
The tail of the Ever Ready statement is couched in relatively optimistic terms, but the overall mood is gloomy wherever the U.K. operations are mentioned.

The position is, however, one now seen by the company as a reality with a Government supported only by a minority of the voting population moving us further and further towards a totalitarian State controlling every facet, directly or indirectly, of our lives both personal and corporate.

Controls imposing less and less freedom of thought, movement and action abound everywhere, controls imposed by politicians who, it seems, aspire to run the economy of Britain in minute detail from Whitehall, with an inflated Civil Service trying to implement the dictates of their and our political masters.

Spendthrift Government policies which we cannot currently afford: piling up debt at home and abroad; redistribution of wealth rather than the creation of wealth; a currency being debased rapidly and which with present rates of inflation will be valueless in very few years; encouragement of even more monopoly power for trade unions and the abuse of such monopoly; and policies generally that stimulate inflation instead of damping it down. It is under these conditions that we have to report to you.

Those of us charged with the running of the affairs of British industry are comparatively few in number, hard-working and industrious, with long experience in running companies both large and small. We are frequently abused, generally without justification, whilst advice to Ministers—whether requested or offered—tends to be ignored. How can the present Government, or any other Government for that matter, expect us to be co-operative with Government when Government itself has not been co-operative with us or is fearful to take the necessary measures to bring a degree of sanity into the economy of Britain?

HOW WE HAVE FARED
During the year under review real productivity in the Group's United Kingdom operations has been patchy and for the most part unit production has failed to keep pace with rising salaries and wages. Although sales generated by our home based companies increased from £51.4m last year to £61.0m this year, profits on these sales declined from £7.7m before tax last year to £5.6m before tax this year—a totally inadequate profit of 9.2% on sales. Fortunately, our overseas operations have helped to redress the balance. Sales by overseas companies increased from £37.8m last year to £42.9m this year, and profits from these operations rose from £5.35m to £6.1m or 14.3% on sales.

THE CONDITIONS UNDER WHICH WE OPERATE
Having in previous reports to shareholders pointed out some of the inherent dangers that faced the British people in both the political and the economic arena, regrettably one now sees the dangers of becoming a reality with a Government supported only by a minority of the voting population moving us further and further towards a totalitarian State controlling every facet, directly or indirectly, of our lives both personal and corporate.

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HIGHLIGHTS

Lex comments on the 16 months results from Norcros, contrasting the profits growth with the increase in gearing. Nurdin and Peacock has announced a 1-for-5 rights issue to raise £1.4m, and the Ever Ready report and accounts is hopeful that overseas business will continue to offset weakening profit margins in the U.K. This week should see the results of a number of major companies including Tate and Lyle and brewers Whitbread and Arthur Guinness.

Long-term confidence at Weeks

ALTHOUGH the directors of Weeks Association feel it would be wise to be cautious as regards the company's immediate future, their confidence in the medium and long term "is still as high as ever," says the chairman, Mr. F. Weeks.

Benefits of the investment and effort which has been put in over the past two years have yet to be realised, he adds.

For the future the company must increasingly look overseas. It is well placed to realise the potential which exists and is committed to seek out opportunities worldwide. Exports last year expanded from £10.8m to £15.2m.

Mr. Weeks points out, however, that the group is still substantially concerned with the U.K. agricultural industry. The general recession, he says, is affecting the demand for agricultural equipment and the position was aggravated by a late spring.

Demand which historically peaks in April-May, has not occurred, and continuing lack of demand for commercial vehicles resulted in the current axle output falling below the planned level.

As reported on April 11, group pre-tax profit increased from £121,584 to £280,569 in the year to January 26, 1975, after a first-half downturn. The net dividend is 1.055p (1.0725p).

At May 12, Grovewood Securities held 822,176 shares in the company. Meeting, Hull, July 7, noon.

● **comment**
Last January holders were informed the company had received notification that four Swiss companies claimed to hold in aggregate 43 per cent of the capital and were proposing to return their holdings together in a U.K. company. On February 18 it was announced that the proposal had been referred to the Monopolies and Mergers Commission—the Secretary of State has required the Commission to make its report within five months of this date.

Meeting, Otley, July 9 at 11 a.m.

● **comment**
The Board of Feb International believes that the group is in a strong position to take on the trading positions of 1975, chairman Mr. G. Fisher tells members in his annual statement.

He states that sales in the trading division continue to be depressed in the first quarter, but

As reported on May 14, taxable profits fell from £12m for the 14 months to March 1, 1974 to £9.4m in the year to February 28, 1975. The dividend is 2.868p (3.4575p) net.

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improvements are still being made by the chemical division. "While the fortunes of our company are closely linked with the level of activity in the U.K. building and construction industries, our efforts in recent years to reduce this dependency continue," he says.

On the year under review Mr. Fisher explains that overall it was a period in which the group attempted to consolidate its operations, strengthen its controls and be in a position to take advantage of future economic movements in the economic situation.

As reported on May 8 profit before tax fell from £307,000 to £293,000 in 1974. The dividend is raised from 1.235p to a maximum permitted 1.23p net.

Accounts adjusted for inflation show profit before tax at £234,000 (£233,000) on a CPP basis, earnings per 10p share at 3.31p (3.32p) on a CPP basis compared with 2.9p (3.14p), historical and net tangible assets per share at 27.8p (25.6p) and 17.8p (15.7p).

The chairman points out that while 1974 profits on a CPP basis are higher than 1973, the group's performance is higher than profits computed on an historical basis. This demonstrates the success of the group's policy of maintaining itself against inflation.

Meeting, Manchester, on July 3 at 10.30 a.m.

● **comment**
The chairman of the company, Mr. G. F. B. Grant, tells members he is satisfied the company is well-equipped to take advantage of the upturn in trade whenever it comes, and sales staff are keeping every eye closed on the market and seeking to develop new ones. "I have no doubt therefore that we shall get our full share of the available business," he says.

He adds it seems inevitable that group profit for 1975-76 will be lower than for 1974-75 but "there is a reasonable expectation" that conditions in the latter part of 1975-76 will improve, leading to more normal profitability in 1976-77.

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INTERNATIONAL COMPANY NEWS + EURO MARKETS

EUROBONDS

Much interest in SDR issue

BY PAULINE CLARKE

AFTER WHAT HAS been described as a phenomenal success for the first Eurobond issue announced by a foreign company, the launch of a second SDR issue.

This time it is for the State-owned Swedish investment bank, Svenska Investitionsbank Aktiefond, which is raising SDR 30m. (equivalent to about U.S.\$37m.).

The extent of the welcome given to the Alusuisse issue is demonstrated by the raising of its amount since it was first set at SDR 30m. to SDR 40m. (U.S.\$62.5m.), coupled with a reduction in the coupon rate

from 9 1/2 per cent to 9 per cent. Clearly, then, the success of the issue was not entirely due to the first place solely to generous terms.

With this performance behind it, and as in the case of Alusuisse, the support of the big Swiss banks, including lead manager Credit Suisse, White Weld, the Swedish loan is expected to be another winner. Hence its indicated coupon rate of 9 per cent. In addition, the new bond is for a smaller amount, although its maturity in 1982 means its life is two years longer than that for its predecessor.

Investors in the Alusuisse issue have mainly been big institutions, anxious to protect

themselves against the vicissitudes of the dollar. But the Arabs, too, are believed to have welcomed the issue.

The Swedish bond, unlike Alusuisse, has no Arab institution in its underwriting syndicate, although this may not preclude Arabs from buying this bond as well.

The absence of an Arab underwriter is probably explained by the inclusion of the blacklisted S. G. Warburg in the syndicate. But it may also indicate a desire by the Europeans to demonstrate—since the odds seem in their favour anyway with the Swedish bond—that the success of an issue does not depend nowadays entirely on the inclusion of Arab underwriters.

Kurabo plans to diversify

OSAKA, June 15

KURABO INDUSTRIES, a major Japanese spinning company, is pushing forward a diversification programme centring on pollution-control equipment, to help offset deteriorating conditions in its traditional line of business.

Mr. Shusuke Yoshida, managing director, said that the company plans to increase sales of pollution-control equipment to ¥10bn. in the year ended April 1976. Sales in this sector totalled ¥1.9bn. in the six months ended April.

Overall, the company aims to have non-textile products, which include chemicals as well as machinery, eventually account for 20-30 per cent of sales, not 12 per cent as at present.

Kurabo hopes for the six months ending October, are expected to rise and operating results, which are mainly influenced by the textile sector, will show an estimated ¥1bn. deficit in the October term against a ¥2.85bn. loss for the same period in the six months ended April 25.

Kurabo had an estimated net loss of ¥30m. in the six months ended April and a ¥315m. term loss for the October 1974 term. Managing director Yoshida said that the company's performance in the April term to higher raw material and labour costs, to poor price trends for finished goods and to a 33 per cent setback in operations in the cotton and synthetic fibre sectors.

Although severely reduced operations are expected to continue toward the autumn, lower prices for raw materials, like cotton, and the fall impact of a recent 19 per cent reduction in the company's labour force to 7,100 workers are expected to cut costs. In addition, the company expects some relief from an upward trend in the price of finished products.

Mr. Yoshida, who oversees the pollution-control sector, said that he does not believe that it will be difficult for the company to achieve its ¥10bn. sales goal in this area. He cited increasing hazard-control regulations at home and abroad.

Kurabo is ranked only seventh in Japan's exhaust-gas de-pollution market in terms of the overall processing capacity of systems shipped. But the company comes first in terms of number of installations with 105, valued at about ¥7bn. Mr. Yoshida said. He explained that the pollution-control sector field about five times ago, specialises in smaller-sized installations.

AP-DJ

Indices

NEW YORK

DOW JONES AVERAGES

Index	Home- Based	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- port	Trans- 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FINANCIAL TIMES SURVEY

Monday June 16 1975

Machine Tools

The machine tool industry remains basically in good shape, although the current downturn in investment is having its inevitable effect on order books. The recession serves to illustrate once again the problems of the trade cycle, for which an effective solution has yet to be found.

Hartle Machinery International

a machine tool success story for Britain

The Hartle organisation of companies continues its profitable advance this year with turnover well up on inflation.

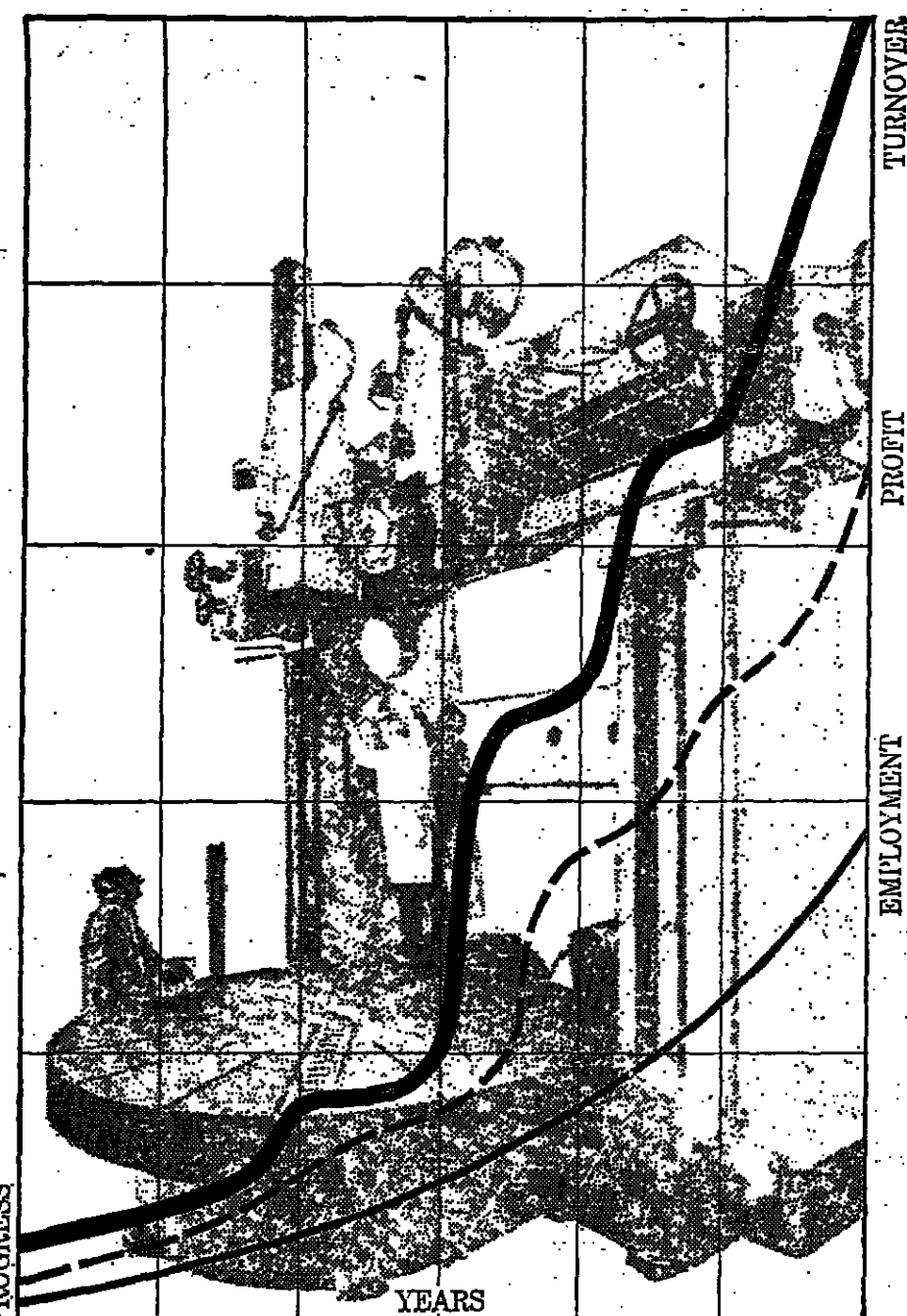
Its market mix of carefully selected manufacturing companies linked to a national distributing and merchanting network is proving reassuringly rewarding despite the present economic climate.

Group investment and marketing policies have been amply vindicated by steady progress, so they will be maintained as far as possible in the months ahead. Further expansion into specialised machinery manufacture or merchanting in Britain or Europe is possible.

HARTLE MACHINERY INTERNATIONAL LIMITED
Head Office—Manchester

MANUFACTURING (Sawing Division)
Alexander Machinery (Dudley) Ltd. Dudley.
High Duty Saws Ltd. Telford.
Qualters & Smith Brothers Ltd. Barnsley.
R. Haighton Ltd. Burnley.

Power Hacksaws, Horizontal and Vertical Bandsaws, Hydraulic Presses, Drilling Machines, Bandsaw Blades and Iron Castings.



A Broadbent 10ft Vertical Boring Mill being finally inspected prior to delivery in June 1975 to the Appleby-Frodingham Works of the British Steel Corporation.

Export Office: Wembley.

OVERSEAS

Hartle Machinery International Ltd. Liege, Belgium.
Edward G. Herbert (Overseas) Ltd.

MANUFACTURING (Turning Division)

Ackworthie Machine Tools Ltd. Kenilworth.
Broadbent Machine Tools Ltd. Mytholmroyd, Yorks.
Stanley Machine Tool Co. Ltd. Halifax.
The Bardsley Jig & Tool Co. Ltd. Oldham.

Rotary Transfer Machines, Bar and Chucking Automatics, Heavy Duty and Oil Country Lathes, Vertical Boring Mills, Deep Hole Borers, Drilling and Tapping Attachments, Presswork, Jigs and Tools.

DISTRIBUTION DIVISION

Hartle-Stedall Ltd. Manchester.
One of Europe's leading machine tool distributors, incorporating: **Derek Hartle Machine Tools Ltd.**, **Kerry Machine Tools Ltd.**, **Lee and Hunt Ltd.**, **M. C. Layton Machine Tools Ltd.**, **Stancroft Ltd.**, **Stedall-Pidgen Ltd.**

U.K. Machine Tool Distribution Showrooms: Birmingham, Bristol, Coventry, Glasgow, Haddenham, Manchester, Nottingham, Sheffield, Wembley, Wolverhampton.

European Machine Tool Distribution Showroom: Liege, Belgium.

Stancroft Metalworking Machinery and Power Transmissions Showrooms: Birmingham.

Hartle Machinery International Ltd

Bank House, Charlotte Street, Manchester M1 4ET.

MACHINE TOOLS II

Deserving of a better image

"IT IS a very good and very theoreticians, from consultants, successful industry which exports well and has a reputation for first-class design. For many companies it is a good industry to be in." This is the machine tool business as seen by an interested "outsider," Mr. Anthony Frodsham, chairman of the machine tool Economic Development Committee (the Little Noddy).

He admits that when he took over this job about two years ago he did so "with a fairly jaundiced eye. I thought, as do so many others, that the industry was in a bad state." He now knows "this was not the case at all. The industry as a whole has been affected by the adverse publicity given to it by a few large companies." It continues to be true that in the U.K. the "image" of the machine tool industry can do with a good deal of polishing. There is a certain amount of wounded pride involved, of course. The many successful companies in the industry would prefer their contribution to the economy to be better recognised. But there is also a more practical side to the situation. The distorted view that this is a moribund industry has an appalling effect on recruitment—be it for the shop floor or for management. What bright young man would want to go into an industry which was supposedly dying a slow death? And even people who consider themselves well informed about the industrial scene often fail lamentably to understand the machine tool sector.

In a speech to the annual meeting of the Machine Tool Trades Association last month, Mr. Tony Alfred Herbert, once Britain's Galliers-Pratt summed up the situation in this way. "There still remains a high proportion among the 'top eight' as far as people who the association wishes to educate but who remain almost totally ignorant of the aims, aspirations, problems, disappointments, fears and even achievements of one of the most technologically advanced areas of engineering science in this country."

"Unsolicited advice continues to be available on all sides, be it through the columns of our papers, from academic

Oblivious

"There are still countless persons who speak of the area of technology encompassed by machine tools in the same breath as a lawn mower. The industry's critics remain oblivious of its contribution to the U.K.'s balance of payments over the past five years. They are astonished to learn that there are currently over 3,000 types and sizes of machine tools, ranging in price from a few hundred to many thousands of pounds."

"They disregard, because it suits them or they are too lazy to discover, that the British machine tool industry stretches from Angus to Cornwall, and from Gwynedd to Norfolk. They are amazed at the size of the industry's annual turnover (around £250m.) and have no idea of the numbers employed by its companies (roughly 47,000). They even equate the scene often fail lamentably to understand the machine tool with the whole industry."

This last remark—although Mr. Galliers-Pratt did not identify the company at the time—refers to the much-troubled retiring president, Mr. Tony Alfred Herbert, once Britain's Galliers-Pratt summed up the situation in this way. "There still remains a high proportion among the 'top eight' as far as people who the association wishes to educate but who remain almost totally ignorant of the aims, aspirations, problems, disappointments, fears and even achievements of one of the most technologically advanced areas of engineering science in this country."

It is doubly unfortunate for the industry to have such a prominent giant among its production companies. The confusion of Herbert's problems with those of the whole industry exists not only in the U.K. Too many customers for machine tools throughout Europe have come to make the same mistake. In the words of Mr. Derek Hartle, chairman and chief ex-



Production line at Charles Churchill—part of the Tube Investments group—for the assembly of automatic chucking lathes.

ecutive of Hartle Machinery International: "The experience of that company (Herbert) has strained the credibility of the British machine tool industry. There are many fine British machine tool companies that have done and are still doing well. In addition, it is an industry that is labour-intensive and of strategic importance. Unless it can get a better rating we will find it increasingly difficult in the future to encourage further investment. The consequences are obvious, because without this investment essential research, development and the re-equipping of factories will suffer, permitting overseas competition to encroach still further on what are traditionally British markets both at home and overseas."

It is true that, as far as the Press is concerned, good news does not rate the big headlines and it is not only the machine tool industry which understands that from bitter experience. But most other manufacturing industries are lucky enough to escape the headlines associated with disaster. While the Alfred Herbert situation drags on the machine tool industry will continue to get more than its fair share of adverse publicity. At the same time very little credit will be given to those successful companies in the industry — and that is the vast majority — which will struggle through the current recession, still contributing to the balance of payments, still employing skilled men and still making profits.

This in spite of the fact that the current recession appeared on the horizon much earlier than expected and that a combination of the energy crisis and three-day working, and shortages of steel and components, helped prevent the machine tool companies make the most of the boom while it lasted. For many years the U.K. machine tool industry has been putting forward the idea that the Government should implement a scheme aimed at countering the effects of the demand cycle. The industry knew instinctively that it was among the major sufferers from the

cycle. Last year flesh was put their future prospects and on the bones of this notion naturally, a good many of them looked elsewhere for employment when the opportunities committee issued a discussion paper arose.

The Little Noddy paper pointed out that returns on capital employed in the industry can decline by as much as 40 per cent during the periods of downturn. The unstable conditions cut cash flows and profits, make the raising of further finance very difficult, cause the machine tool makers to invest more cautiously and to keep the size of their operations too small rather than too large.

This combination of lack of capacity and shortages of skilled labour have the effect of putting an intolerable strain on the industry when the surge in demand follows the trough. Delivery dates are extended, so overseas orders are lost, and imports encouraged.

The trouble is that the effects are not reversed when demand subsides. In the machine tool sector a distinct "ratchet effect" is noticeable, with increases in 33 per cent, accompanied by a severe decline in the intake of young people. It had proved impossible to get back many of the skilled people when they were needed as the cycle of established themselves in the demand started on the upward U.K. it is difficult to dislodge curve. Those who remained in the industry were worried about

this argument. Last year, in spite of a best-ever performance by the U.K. machine tool industry in exporting £107m. of equipment, the favourable trade balance fell from £18.5m. for 1973 to around \$7m. The trade balance has been shrinking steadily since 1971 when it reached £48.6m. The following year it was £31.7m.

It is not that easy to establish the real size of the problem, however. For it would be impossible for the U.K. manufacturers to supply all the 3,000 types of machine tools Mr. Galliers-Pratt mentioned. International specialisation and trading is a traditional part of the business. This fact, and the impact of the cycle, has encouraged some companies to give up manufacturing completely and turn themselves into purely importers or agents. And most of the successful British machine tool concerns include imported machines among those they market in the U.K.

The Little Noddy put forward a number of counter-cyclical schemes for discussion. The one which the industry generally favours involves an investment reserve fund under which companies would be encouraged to set aside a proportion of their earnings in any year to a special reserve which they would then use for investment purposes during a recession. They would be actively discouraged — though not prohibited — from using this cash during the boom periods.

The Council of NEDCO — which is the national forum for economic consultation between Government, management and unions — has put its weight behind the idea that there should be a counter-cyclical scheme, but so far the Government is still to be finally convinced that one is needed.

At the moment, with manufacturing industry struggling to make profits, there is certainly no spare cash around to start the kind of fund the machine tool Little Noddy has in mind. But there is time to prepare a scheme in time for the next upturn in trade — which most machine tool men in Britain believe will come for them no sooner than the middle of 1976.

The industry is also attempting to head off any problems which might arise with the massive (£200m.) investment programme for British Leyland. Preliminary discussions between the MTTA, British Leyland and the civil servants involved in the financial rescue operation have established that

Leyland will, if possible, attempt to place its orders for machine tools outside the peak demand periods and try to fit the industry reasonable amount of its requirements.

Meanwhile, the U.K. machine tool industry is running out of work. By October it expects to be deep into the heart of the recession. Mr. George Staveley, new president of the MTTA, has pointed out that the U.K. manufacturers have been suffering from a downturn in new orders since last October, and this situation would be roughly a year to work through to the manufacturing operations. For some companies the crisis would arrive earlier.

Downturn

For the first four months of this year new orders for machine tools have been between 30 and 50 per cent below the level for the same period year ago. The downturn has been particularly severe in those companies which make standard machine tools, although there are exceptions and for those whose main business was serving the machine tool industry.

Exports have held up for most of 1975 so far, many manufacturers say more than 60 per cent of their order intake is from overseas (last year the sales percentage was 47 per cent), but this takes into account the sad decline in home market situation. Now the U.K. inflation rate is outpacing the advantages of the downward float of sterling and in some sectors the U.K. manufacturers feel they are bumping against the price ceiling when quoting for overseas orders.

On the brighter side, many people agree with Dr. Adam Frankel, managing director of Staveley Industries, who believes that the bottom of the current recession will not be as low as the one three to five years ago. His point is that capital investment in the manufacturing industry has been so low for so long that the industry simply must boom. And at Tube Investments machine division, Mr. George Ashton, chief executive, says that the order situation has improved of late so "perhaps we are gently bumping off the bottom of the trough ahead."

Kenneth Gooding
Industrial Correspondent

Paris exhibition on a world scale

THE EXHIBITION which opens in Paris to-morrow under the curiously inelegant title of 1 EMO (Exposition Mondiale de Machines-Outils) will be one of the largest and geographically most comprehensive displays of machine tools, machine tool accessories and associated equipment—such as machines for the hardening, thermal processing and surface processing of metals connected with machining—ever put together in one place. Behind it lie 25 years of developments in competitive co-operation by the European machine tool industry.

For it was in October, 1950, that CECIMO—the European Committee for Co-operation of the Machine Tool Industries, and the body putting on 1 EMO—was born. And right from the outset the organisation, which links the machine tool trade bodies in 13 countries (Austria, Belgium, Denmark, France, Italy, The Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, West Germany and the U.K.) and thus covers some 1,500 individual machine tool companies throughout Western Europe, has had as one of its major aims the establishment of sufficiently comprehensive, specialised machine tool exhibitions to make such events worthwhile for manufacturers, considering the considerable expenses involved in exhibiting.

The Milan exhibition formed part of what was becoming a crowded exhibition calendar for machine tool makers. The years of the major European shows organised by CECIMO were years avoided by the organisers of other displays. (Indeed, manufacturers covered by CECIMO may not exhibit machine tools elsewhere in years when there is a CECIMO-organised exhibition.) But in between was a plethora of shows. Thus, 1972 saw major exhibitions in France, Italy, the U.K., Japan and the U.S. (and next year's machine tool exhibition calendar is just as full, with exhibitions in the same countries for paying out the large sums of money needed to mount a display. At the same time, a second, associated problem was that when the buyers were assembled the exhibition itself might well be insufficiently comprehensive to have made their visit worthwhile. There was

little opportunity for buyers to see everything, or virtually everything, of interest under one roof; and there was no single, centralised, source of information.

This was the sort of situation CECIMO's founders resolved to overcome. To an extent, and without denigrating their past efforts, one might say that they have done so. For the European machine tool exhibitions that the organisation has held regularly since 1951 (at first annually but latterly every two years) have been restricted to member countries only. That they have been a growing success cannot be disputed: the first, in Paris, occupied 25,672 square metres with stands and attracted 839 exhibitors; the tenth, and largest, in Hannover in 1967, had stands covering an area of 93,165 square metres occupied by 1,368 exhibitors. The last of these exhibitions, in Milan four years ago, had 1,067 exhibitors and stands covering an area of 63,837 square metres.

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little opportunity for buyers to see everything, or virtually everything, of interest under one roof; and there was no single, centralised, source of information.

For the companies taking part things can, perhaps, be put somewhat more simply. Thus, Bennett Tools, a Tube Investments subsidiary, is one of the many U.K. companies mounting a display at 1 EMO. And it sees it as part of a major sales drive into Europe, and into France in particular. The aim, it says, is "to capture a substantial share of the French market for spring-making equipment." Our major competitor for this

operation have established that

The World Turns on Colchester Lathes



1967



1968



1971



1975

FOR EXPORT ACHIEVEMENT



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CONTINUED ON NEXT PAGE

MACHINE TOOLS III

Advances in numerical control

FOR THIRTY YEARS or so of CMC. But before that, numerical control has been several projects were afoot to take to mean the automatic of a machine tool so adaptive control which requires that its cutting edge follows the path required to produce the desired shape in the feedstock. In the earlier years of the period, the label "automatic" covered sequence control over necessary functions of the unit parts whose dimensions are like starting drive motors before initiating cutting—plus the use of hardwired controllers fed by punched or magnetic tape. Generally, input information was limited to specifying the final position desired and the nature of the cutting path. The controller calculated the necessary travel velocities along the axes and started operations, guiding the work through velocity servo.

These calculations were, and still are, performed on demand by hard-wired logic which some call a computer, but which does not strictly qualify for that designation. A great deal of work has, however, been done in the last ten years to get true computers much more closely involved in numerical control in several different ways.

Mini-computers began to be used some five years ago to supervise component geometry development in a function now called computer numerical control.

Enhanced

It was also suggested at the time that the in-process gauging could be combined with modification of machine settings from the central point. This would have ensured that no parts would have been out of tolerance and machine performance would have been considerably enhanced.

To these systems should be added direct numerical control, in which the central computer also supervises the flow of parts from machine to machine in a strict machining sequence along a group of controlled tools.

The path to the realisation of these highly specialised forms of automatic data processing have been full of technological glory, but certainly not easy to follow, despite a large amount of Government backing in the U.K. through the

then Ministry of Technology. Even the spur of military and space work in the U.S. was inadequate to overcome some of the problems, especially when it came to writing completely new programming languages.

At one time, minicomputer builders were confident that the "old-fashioned" methods of controlling machine tools were dead and that it was only a question of time before each tool had its own miniprocessor.

Five years have gone by and this has not happened, not least because the mini-makers found the operation of interpolation required their machines to perform calculations at speeds of 10,000 a second while looking at data input, machine tool logic and velocity requirements.

This placed a heavy burden on the designer and made the software system complex and expensive—so the question was asked who would pay for the applications work. A way was found around the problem, but it is significant that Plessey (Britain's major numerical control system company) is only now beginning to promote advanced machine tool control based on a minicomputer known for the excellence of its software and brought in from the U.S. for incorporation into

Plessey systems at Poole, Dorset.

Challenged

But already the mini is being challenged by the makers of micro-computers, machines in which all logic and memory are concentrated on a handful of large-scale integrated circuit chips, instead of using one or two printed circuit boards full of components. At the same time, advances in circuit technology such as this have enabled electronic engineers to plan and design sequential control systems on the basis of integrated circuit read-only memories. These can be programmed and altered at will to suit changes in operations. Thus, where minis were beginning to displace special purpose controllers, the latter, in new electronic liveries, are making a comeback.

In Britain, there have been many setbacks to domestic industries under constant heavy pressure from some of the largest companies overseas. Combined with this has been the extreme cyclical nature of the ordering pattern for machine tools and the intolerable chopping and changing in the policies of the sponsoring Ministry with changes in Government.

Nevertheless, the point has been made by former Industry Secretary Anthony Wedgwood Benn that British industry is ill-equipped compared with major competing countries. It remains to be seen whether U.K. companies are to be re-equipped by making this a worthwhile taxation exercise, or whether ceaseless and useless—precept will be used.

There can be no doubt that numerical control methods are the key to productivity—indeed even a simple digital gauging display can do a great deal this way—or that in the past U.K. developments have been too ambitious and have not looked closely at what the small company needs. And apart from one praiseworthy exception, no attempt has been made to take new developments in mobile workshops right to the factory yard, so that management and workers can judge of the improvement without the trauma of buying and installing untried equipment.

Although a great deal has been written on extrusion and powder metal techniques, metal cutting is unlikely to be challenged to any great degree in all but the most highly specialised instances for many years to come.

Even within the smaller com-

pany it is time to consider the integration of the design operation with the shop floor work since it already is quite simple to go to one or other of the computer bureaux operating design software packages and, using a keyboard and display, finalise a part design in a few minutes, producing a machine control tape by the way. This is a relatively simple improvement to bring in but it saves valuable time and cuts out a great deal of humdrum routine. Tedious measurements likewise can be cut out by using a digitiser.

Recording

There is a case for even greater integration of the whole operation from design to quality control since the solid-state electronic equipment now available will stand up to tough conditions and since highly reliable gauging machines can be made part of a production line.

These inspection machines, which can only with difficulty be divorced from a high accuracy machine tool line, are themselves being automated and the Ferranti Conquest unit, for instance, can be used to prepare a numerical control tape by using the gauging probes to explore and describe a master component. It is of

special importance where the user has no in-house computer department or knowledge of programming techniques.

This gap in many engineering companies' knowledge has been seized on by such companies as Kremer Automation, which offers an automatic control system for machine tools, both new and existing, which is described as "self-programming." Suitable for even the small company which does a large number of one-off jobs, it records the sequence of manual operations, including tool changes, on magnetic tape cassettes. When needed, all the operator has to do is play the recording in the control console. The same

applies to repeat patterns of operations.

Whether the attraction of new cutting materials providing far higher working rates will speed design changes in tools and controllers is a matter for conjecture. Certainly users have in the past tended to hold on for too long to the machines they know. The spur of competition from users of sophisticated equipment abroad and the worsening shortage of highly skilled operators may bring in numerical control equipment for reasons other than productivity—because it will be the only way to produce high quality components.

Ted Schoeters

Growing international exchanges

WHILE MACHINE tool industries throughout the world have come to accept the cyclical nature of their business, there have been few periods when international markets have together found themselves at the same stage in the demand pattern. In short, machine tool manufacturers in virtually every industrialised nation throughout the world are suffering at the hands of a recession which shows little sign of ending and, because of their common experience, there is nowhere else they can turn to for business.

It is against this sombre background that the First Worldwide Machine Tool Exhibition is to open to-morrow in Paris and while it could be claimed that this hardly represents the right atmosphere in which to stage such a show, there is equally little point in launching such a massive promotional campaign when demand is high and manufacturers are straining capacity.

Set-backs

Of one thing, however, the 1,300 exhibitors at Paris can be assured. There is no country in the world which can be self-sufficient in the range of machine tool equipment necessary to supply the needs of industry and the continuing development, therefore, of world trade in this market can be counted on to continue in the future, despite the current set-backs.

What happens and who benefits when the world manages to drag itself out of recession remains to be seen, but a look at the present composition of world trade in machine tools and the way in which it has recently been developing gives some clues to the future.

To begin at home, the picture has not recently been an encouraging one. Figures for 1974 show that the U.K. only narrowly avoided becoming a net importer of machine tools, despite the British machine tool manufacturers' substantial achievement of boosting exports to their best-ever level of nearly £107m., compared with only £84m. the previous year. At the same time, however, the U.K. also imported no less than £99m. worth of machine tools, leaving a favourable balance of trade of only about £7m. The main cause of the narrow trading gap was the decreasing value of the pound compared with the currencies of other major trading nations, and with the number of manufacturers of heavy machine tool equipment—that is, expensive machinery—being steadily reduced in this country, the value of imports has risen, a trend which has been further encouraged by the growing number of home manufacturers who have opted for marketing rather than actual production.

Even the remaining manufacturers have been importing items of foreign equipment to supplement their own ranges and delays in delivery by home suppliers have also helped imports.



Hydro NC540 lathe—product of Hydro Machine Tools, part of the 600 Group—at the Inverin, County Galway, works of Hydro Marine International Inc.

At the moment, however, demand is well down and the volume of imports can be expected to drop back as a result. Exports, however, may hold up rather better, with the continuing devaluation of the pound helping to make British goods abroad more attractive, despite the flat international market. In the first two months of this year, it looks as though exports stood at a little over £23m. while imports stood at about £19m.

In the world league, Britain is certainly not the force it once was, as shown by a quick glance at international trade figures for machine tools issued by the European Committee for Co-operation of the Machine Tool Industries.

According to the Committee, the West Germans now stand

supreme as the world's largest exporter of machine tools. Sales by German manufacturers throughout the world last year reached nearly \$2bn., four times as high as the next major competitor on the international scene, the Americans. After the U.S. came Switzerland, East Germany, Italy and then Britain.

In terms of imports, Russia last year topped the list with \$367m. of foreign manufactured machine tools purchased; next came France, then Poland and the U.S. Britain stood in seventh place in the importing league.

As far as actual production was concerned last year, Germany remained in first place ahead of the U.S. and Russia, with Japan, Italy, France and Britain following. The Russians were at the head of the list of consumers, with the U.S. in

second place and Japan third. Britain could only manage eighth position, a statistic which says something about the current levels of investment by British industry.

Customer

Of the U.K.'s major export markets, the biggest single customer last year was the U.S., which took nearly £13m. of machine tools, while by comparison, the EEC countries bought nearly £28m. of equipment. It is hoped that East Germany may also become a major customer for British equipment, perhaps taking up to £12m. of equipment a year compared with the negligible level of exports recorded in the past. Russian business, too, is expected to increase.

The most successful nation in terms of selling machine tool equipment to the U.K. was predictably West Germany, with almost three times the level of sales as those achieved by its nearest rival, the U.S. Italy came third and France fourth.

West Germany's outstanding performance in the machine tool markets of the world stands as an example to industrialised nations throughout Europe and beyond. With a workforce of around 110,000, the country's 500 machine tool manufacturers are now out-producing every nation which defeated it during the last war. Since 1970 the country's machine tool sector has held an international lead which it confidently expects to keep.

Perhaps the most remarkable aspect of the West German success is that it has been achieved despite the continual rise in the value of the D-mark. Outstanding technological developments have helped advance West Germany's penetration of world markets in recent years and so far the industry has not

had to go too far away from home in search of export business, with Europe and Comecon countries taking the bulk of its overseas sales.

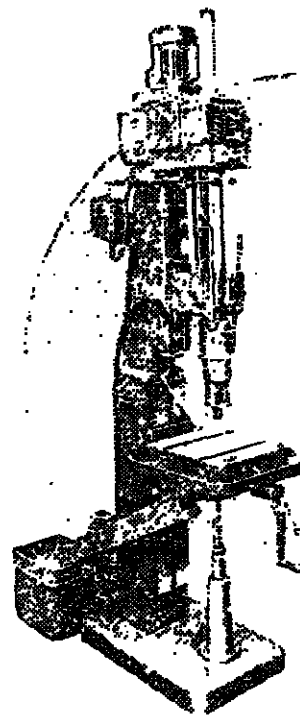
Another major machine tool producing nation which has been having substantial success in selling its products to the U.K. is Italy, which still ranks in the top league of machine tool producers. Exports of equipment from Italy have risen to account for nearly half of all production, with West Germany itself a traditionally large customer, although it has recently become less important, with countries like the U.K., France and the Scandinavian nations taking up the slack. Home demand in Italy, however, is certainly no more encouraging than in any other producing country.

While individual nations vie for the business available among the world's major customers, they can at least be comforted by the multiplicity of predictions which suggest that international trade should once again be picking up towards the middle of next year. It can at least be said in the U.K.'s favour that the continuing rationalisation which has been underway among British machine tool manufacturers has left them in better shape than ever before to survive the present difficult conditions and will, hopefully, provide them with a sound footing on which to try to capitalise on the next upturn in international machine tool business.

Competition for sales in established and developing nations will be intense and up-to-date technology, good delivery performance, competitive prices and aggressive salesmanship will be needed if the U.K. is to maintain its standing in the international machine tool world.

Michael Cassell

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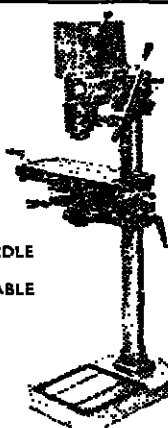
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Exhibition

CONTINUED FROM PREVIOUS PAGE

occasioned the organisers of 1 EMO some disappointment. This is the only showcase this year for European machine tool manufacturers and we would have thought that the U.K., which is an important manufacturing country, could have taken more space," M. Pierre Rouchard, commissioner general of 1 EMO, commented recently.

The reasons for the U.K. companies' relative caution are understandable. For the British industry has been seeing its order books fall fast. The most recent figures, put out by the Department of Industry at the end of last month, show that the three months to the end of February saw a 21 per cent drop in the new order intake—most of it accounted for by a 35 per cent decline in home orders—compared with the previous three months. And these are value figures, with price inflation masking an even heavier drop in real volume terms.

The downturn began last October, and it has already resulted in the recent warning from Mr. George Trowbridge, president of the Machine Tool Trades Association, that the industry is running out of work and could by this October be thinking carefully about the level of employment it can maintain.

Clearly, in these circumstances, cash is tight and frills have to be cut out. Among those, obviously, could be considered participation in trade exhibi-

tions. This is, of course, a point that could be made too much of the U.K. strength at 1 EMO will still be significant, with some impressive machines being shown for the first time including an eight-station numerically controlled turret drilling and milling machine built by the Leicester company Wadkin.

Overall, the importance of 1 EMO as a shop window for the machine tool industry throughout the world can be in no doubt. And how important that is is obvious. For machine tools are the basic stuff from which so much of industry's productive capacity stems. Today, when inflation and recession are hitting most parts of the developed world and making it look impossible for the undeveloped world ever to achieve so many of the things taken for granted in the West, modern manufacturing equipment—and that to a considerable extent means modern and technologically advanced machine tools—have a major role to play in getting us out of the mess we are now in.

The organisers of the exhibition may have been picking their sales talk a little high when they described the contacts and exchanges of knowledge made possible by it as being likely "finally (to) affect the progress of our standard of living," but the exaggeration is probably nowhere near as great as might appear on a first reading.

David Walker

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MACHINE TOOLS IV

Big groups play a dominant role

THE BRITISH machine tool industry is made up of about 180 companies ranging from the very large—employing more than 6,000—to the extremely small—less than 50 on the payroll. About 60 of the individual companies are owned by the larger machine tool or other diversified engineering groups. To get an idea of the way the larger companies dominate, you have only to know that the seven largest machine tool units account for 60 per cent of total U.K. production, worth in the region of £250m. a year.

The seven "majors" include, in strictly alphabetical order: (1) John Brown which through Wickman and its subsidiaries has machine tool manufacturing turnover of £41m. and profits before tax of £2.5m.

(2) Cincinnati Milacron, turnover around £20m. and with over 2,500 employees. This is a private company owned by the giant U.S. machine tool group of the same name.

(3) The George Cohen 600 Group, which has now begun to tell the world it is the U.K.'s largest maker of machine tools and which numbers among its 18 subsidiaries such well-known names as Colchester Lathe, W. E. Sykes, F. J. Edwards, Hydro Machine Tools, Gamet Products, Richmond Machine Tool and Dicksons (Engineering). Last year the 600 Group's machine tool division made profits of £3.7m. on a turnover of £36.7m.

(4) B. Elliott, which takes in Butler Machine Tool and Snow and Company as well as Elliott Machine Tools. Elliott's has diversified into other activities while cutting back on its machine tool operations for which it gives no separate statistics. The Elliott group as a whole last year had a turnover

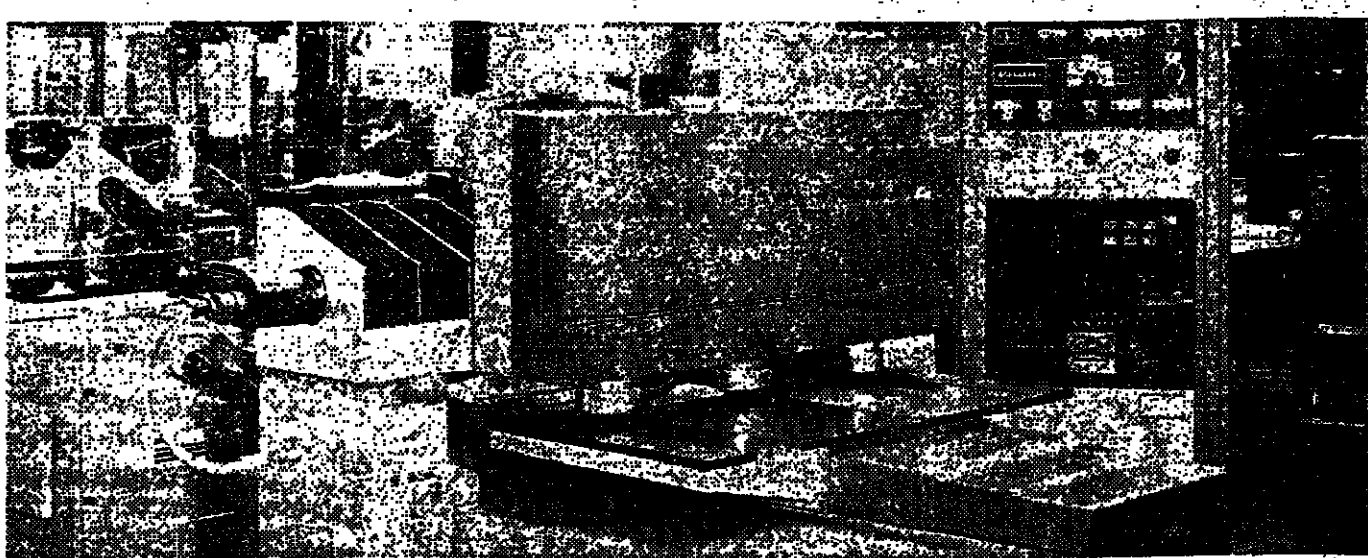
of £36.2m. and profits of £2.4m. (5) Alfred Herbert, for some years the ailing giant of the industry and its biggest business in terms of turnover and numbers employed, some 6,500 at the moment, Herbert's turnover last year was £39m.

(6) Staveley Industries, which has also been actively slimming down machine tool operations. Its manufacturing companies are Asquith, Drummond, Kearns-Richard and Staveley-Lapointe. The company is reluctant to say exactly how much of last year's £57.4m. of turnover and £2.9m. profit was from machine tool operations. Chief executive Dr. Adolf Frankel maintains, however, that the division now described as the "machine tool" division should more realistically be called the "mechanical engineering" division.

(7) Tube Investments' "machine division" which the company itself maintains is "one of the largest machine tool, machinery and associated equipment organisations in Europe." Among its best-known manufacturing businesses are Matrix and Charles Churchill.

TT's machine division made profits of £1.58m. on sales of £35.5m. last financial year.

Among the successful medium-sized concerns is Hartle Machinery International, previously called Edward G. Herbert, but which changed its name for obvious reasons. Hartle has grown considerably in recent years via acquisitions and its machine tool manufacturing "names" include Ackworth, Alexander Machinery (Dudley), Broadbent, Quaters and Smith Bros. and Stanley Machine Tool. Its distribution statistics, the Elliott group as a whole last year had a turnover



The Plessey Numerical Controls NC 1130 system, which has been integrated with the Europa R-3-1000 printed circuit board routing machine of Vero NC Developments.

the largest and most efficient machine distribution businesses in the U.K." Hartle's turnover in 1974 was £8m. and profits reached £407,000.

This makes it slightly smaller than Wadkin, best-known for its woodworking machinery. Wadkin's turnover last year was £13.6m. while profits reached £1.6m. Another publicly-quoted company in the sector, A. A. Jones and Shipman, made taxable profits of just over £1m. on £8m. of turnover.

Unquoted

Of the unquoted concerns, Adcock-Shipley, now part of the U.S. industrial conglomerate Textron, reported profits of £635,000 on 1973 sales of £6.34m. and there is every reason to suppose results have improved since then.

Most of the majors were built up during the mid-1960s. This period saw the growth of Alfred Herbert, Tube Investments, B. Elliott and Staveley

machine tool operations. The IRC had a hand in the get-together of two smaller companies at the high technology end of the industry—Kearney and Trecker and the machine tool part of Marwin. These merged to become Kearney and Trecker Marwin.

The problem was that these merger programmes took place just in time for the worst recession that the U.K. machine tool industry has ever seen and they proved disastrous for many of the companies involved.

Alfred Herbert's position is well-known. Losses total more than £14m. over the past four years and so far there is no sign of a return to profitability. The company badly needs the financial assistance it is to receive from the Government. In return the State is expected to take a majority shareholding.

Herbert will join Kearney and Trecker Marwin to form the machine tool part of the National Enterprise Board's

portfolio. For KTM, like Herbert burdened down with a huge load of debt that it found impossible to finance from profits and having no cash left for capital investment, also had to turn to the Government for financial aid.

Option

KTM has good products and a good order book, but poor financial results. The Government agreed to pump in up to £3.5m. in return for what amounted to control. What was unusual about this deal was that the Vickers group was called in to take management responsibility for KTM and has an option to acquire a controlling interest in the company by not later than April next year. Vickers sees this as a fairly inexpensive way of taking a look at machine tools—a business closely allied to some of its existing engineering operations.

Apart from Herbert and

KTM, Staveley also almost died, death because of the poor showing of its machine tool businesses. During the build-up days it took an interest in a wide variety of machine tool sectors. As part of his rescue scheme, Dr. Frankel, called in in 1970 to sort out the desperate situation, concentrated on companies concerned with the heavy end of the market. Once there were 5,000 working in Staveley's machine tool division and now there are 2,500. And as previously stated, quite a number of the division's activities now have nothing to do with machine tool manufacture.

Not only that, Dr. Frankel has made sure that the other parts of Staveley have been developed so that currently the £10m. of capital employed in the machine tool division is only one-quarter of total capital employed by the group.

The story at B. Elliott is very similar, although Elliott did not reach such dire straits as did Staveley. Elliott's acquisitions

in the 1960s turned it into the leading supplier of standard machine tools in the U.K. with an integrated structure ranging from the manufacture of components to the production of finished machine tools and then on to selling and factoring.

This depression in the industry in the late 1960s and early 1970s convinced the management that a change of direction was needed, particularly as the developing countries could be expected to start producing standard machine tools with cheaper labour. The substantial rationalisation saw the number of factory locations in the U.K. halved and the workforce reduced by 45 per cent. Like Staveley, Elliott moved into heavy, more sophisticated machine tools.

Diversification took place and to-day only 20 per cent of Elliott's total sales is from British-made machine tools. The rest of the business is made up of foundry operations, sales of imported machines, general engineering and overseas subsidiaries which bring in one-fifth of the profits.

Critics of the mergers that took place during the 1960s pointed to the fact that it is mainly the smaller machine tool concerns which have best weathered the years of intense depression in the industry. The smaller concerns, it was argued, were more successful because they usually had a product which had a technological lead over all competition or was a company which could supply the whole of Western European demand for one particular type of machine tool.

The smaller company was also more flexible, so the argument continued. It was able to change direction more quickly, to adapt its product to suit the customers' requirements. The management was more likely to devote its time to getting closer to the customer and the products the customer wanted.

rather than having to be leading supplier of standard machine tools in the U.K. with an integrated structure ranging from the manufacture of components to the production of finished machine tools and then on to selling and factoring.

What all this assumes, however, was that the new groups would be run from a centralised structure. Where this control did come into effect, results were, indeed, poor. But some parts of the industry had led the way with a decentralised structure. The Group had one of the best identities of the machine tool companies retained, where they were encouraged to act as autonomous units. Staveley and Elliott, this was the pattern.

Security

At the same time, the broader financial and marketing base to work from became a part of a group. They are certainly more able to find the resources of money and power needed to develop overseas markets. Also, the industry's difficult financial problem, the association with large and well-known groups gives the potential customer a feeling of security.

In spite of all this, though, will take a great deal more to persuade most of the "big players" in the industry that they should join a larger group. In any case, apart from Hartle, the large companies seem to be showing no real inclination to add to their existing machine tool interests, apart from perhaps adding to their agencies.

Once the Alfred Herbert situation is sorted out, Vickers has made up its mind about KTM. The industry should stabilise for some years to come. And, with that, there will be no severe casualties from the current recession in the industry.

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Two-way missions to foster exports

RECENTLY 20 Argentinian industrialists were in the U.K. for a two-week tour of some part of Britain's machine tool industry. At the end of the visit, one of the Argentinians recalled that he had recently been in the market for a particular machine tool. He had the choice of three from manufacturers around the world. He did not choose the British machine on offer because he knew very little about the company which made it. During the visit, however, he had had the chance to visit that particular company's main factory and see the kind of machine tools it was making. "I wish," said the Argentinian, "I had bought British now that I have seen what that company is doing."

The Argentinians were on an "inward mission" to the U.K. organised by the Machine Tool Trades Association with the backing of the British Overseas Trade Board—part of the Department of Industry.

This particular visit had not been in the 1975 schedule. But the MTTA's export officer, Mr. David Bromige, had discovered that not only was there soon to be an upsurge in demand in Argentina for machine tools but also there was widespread interest in a visit to the U.K. manufacturers. He made his discovery when calling in on contacts in Argentina on the way back from Brazil where he had been for the MTTA. As it turned out the party was split equally between representatives from the State-owned part of Argentinian industry and the private sector.

It was the first offer made by the MTTA in Argentina and, with some of the mission members already having re-tooling plans, the chances of a successful outcome in terms of firm orders are high.

This was just one of a number of "inward missions" over the past year. Other visitors came from Spain and France. The number of French missions during the past few years should augur well for follow-up action during the I EMO exhibition in Paris.

For follow-up action after any kind of mission is particularly important. The idea behind the "inward missions" is that personal contacts can be made and the visitors can see just how wide a selection of machine tools is available in the U.K. and just how advanced on the technological front they are.

The pattern of the inward missions is that they are sponsored by the MTTA with financial support from the British Overseas Trade Board. Companies interested in the particular countries the visitors come from can arrange to have them visit one of their manufacturing units. The cost of entertaining the party for a day usually works out at between £300 and

Cheaper

Complementing the "inward missions" are "outward missions" which the MTTA and the British Overseas Trade Board organise from time to time. The idea here is that, by making a group, travel and hotel facilities can be bought at a cheaper rate and the BOTB can become officially involved via financial help for those companies taking part. Once company representatives arrive at the destination it is up to them to go out and sell, perhaps visiting existing agents or looking for one to serve that particular area.

During the past year there has been a small outward mission to South Korea, a third-world market of considerable promise—particularly in the form of the new Hyundai plant producing the first all-Korean car. The MTTA says "The mission was certainly successful, reflecting the special importance the South Koreans had placed upon it."

There has also been a mission to Czechoslovakia at the invitation of the State purchasing agency. "This arose out of mutual wishes to improve the two-way trade of the countries, and the Czech concern for our knowledge of their market for machine tools. The result was an offer of space at the Brno Technical Fair in September this year, which was quickly accepted," says the MTTA. "Indications are that some inroads will be made in this market."

The MTTA sees as one of its main tasks the identification of future major markets. In the past the "nursing" of the Spanish machine tool market certainly paid off with exports nearly doubling in value to £3.7m. in the two years between 1971 and 1973.

Possible markets looked at last year included Indonesia and Brazil. The MTTA's director general Mr. Howard Barrett took a detour to Indonesia on his way home from the Japanese International Machine Tool Fair last October. He reported that the Indonesia market was not technologically ready for an inward mission just yet, although a close watch should be kept on developments.

Mr. Barrett, with the recently retired MTTA president Mr. Tony Galliers-Pratt, spent some days in Iran last October as

well. Iran is proving to be one of the most interesting markets of late and the trip by the MTTA representatives "is leading to further collective and individual company visits."

Mr. David Bromige combined a trip to the British Industrial Exhibition in Sao Paulo—where machine tool makers took 37 per cent of the U.K. space—with research for report he issued when he got home. The message in the report (which was mainly concerned with providing as much information as possible about industrial conditions in Brazil) was that U.K. manufacturers contemplating the setting-up of joint ventures in Brazil or considering having their equipment made there under licence should move quickly. For German and Japanese companies are already making progress there and in some areas "their success will mean the market will be virtually closed to the competition because once manufacture in Brazil is established tariff barriers come into effect to keep down imports of similar machines."

The MTTA also helps members taking part in various exhibitions round the world, often only with advice but sometimes taking a sponsoring role (along with the BOTB) for the British party. During the past 12 months there has been the British Machine Tool exhibition in Stuttgart, an event where the immediate return was disappointing because of the economic climate in Germany but one, which, underlined the advantages of the specialised British machine tool events and the MTTA's belief that similar events should be held in other markets.

Successful

Apart from the Sao Paulo event, there was the National Machine Tool Builders show in Chicago, one of the major events of 1974, and which had a reasonable representation from the U.K. industry. Says the MTTA: "It was a successful show in a market which proved to be by far the best for U.K. manufacturers in 1974, taking £13.9m. worth of machine tools."

The British Machine Tools and Scientific Instrument exhibition in Shanghai, China, formed the basis of a follow-up to an Industrial Technology exhibition in 1973. "The going was slow in the short term due to the Chinese lack of funds, attributable to their very major investments in 1973 and 1974. However, interest was high and the future promises to be rewarding for those who make the effort," the MTTA declared. Result: from the Japanese International Machine Tool Fair

in Osaka were also negative in view of the sadly depressed state of the economy there. But that event did provide a chance for the representatives of the MTTA and their counterparts in the Japanese industry to compare notes. They both agreed that the number of exhibitions around the world is in dire need of rationalisation.

Mr. Galliers-Pratt reports, however: "I am sorry that subsequent discussions with the U.S. and even in Europe have revealed attitudes which for the time being at least seem to indicate that, although the machine tool industries of the world complain about the frequency and cost of major compulsory exhibitions, we have not yet reached a stage of willingness to seek to overcome first hope is that the GDR might

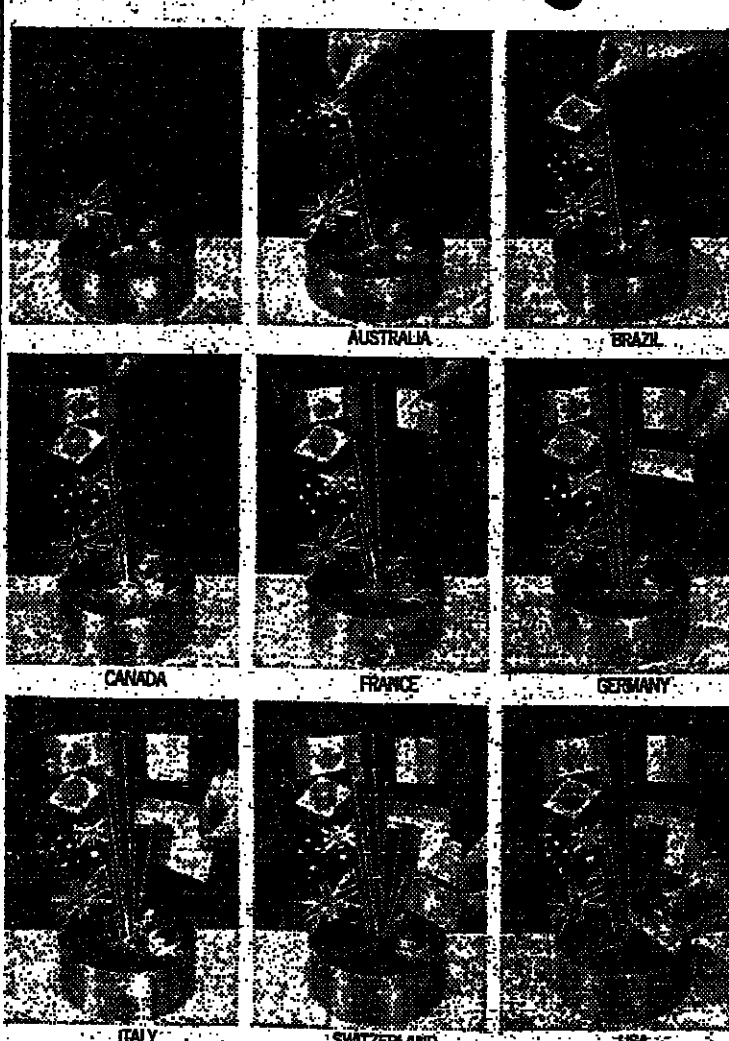
take £10m. or so of machine tools a year during the five-year plan which began this year."

Further plans include an outward mission to Hungary in September and an exhibition in South Africa in October. The provisional 1978 programme in the Leipzig Fair and a possible British Machine Tool exhibition in Bilbao, Spain.

In making its plans, the MTTA says that, while the priority markets are vital to the schedule, the programme should not be overburdened. There should be flexibility to cope with sudden developments in the GDR ten-year plan. The East-German market has been closed in Iran and Eastern Europe.

Kenneth Gooding

Adding International to our name had to make good sense.



It was inevitable. With exports to many countries, new overseas manufacturing facilities and the need to complete a world company image, it made sense to change plain Pratt & Whitney to Pratt & Whitney International. What's more we've spent £124 million on a new factory in order to keep us at the forefront of the world machine tool industry. What else would you expect from the world leaders?

SEE US IN PARIS AT

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AUTHORISED UNIT-TRUSTS

[illegible]

INSURANCE. PROPERTY. BONDS

REGIONAL MARKETS

[illegible]**FINANCIAL TIMES STOCK INDICES**

	June 13	June 12	June 11	June 10	June 9	June -6	A year ago
Government Secs.	58.22	57.56	58.60	57.33	58.35	58.73	57.07
Fixed Interest	57.43	57.25	58.01	56.17	58.14	58.14	56.89
Uninsured Ordinary	340.6	334.7	334.2	339.8	352.3	362.0	375.5
Gold Mines	379.9	356.4	378.7	374.9	371.6	389.0	318.8
Ord. Div. Yld. %	5.83	5.92	5.94	5.83	5.64	5.49	7.89
Earnings 10¢ Share	17.45	17.73	17.80	17.46	16.28	16.44	18.71
P/E Ratio not incl.	8.18	8.05	8.02	8.18	8.46	8.56	7.58
Doubling marked	6,334	6,706	6,729	6,833	6,828	7,554	15,948
Equity turnover Em.		77.73	76.26	74.37	65.09	67.41	35.71
Equity margin total		18.460	18.233	19.136	20.757	25.803	9.996

[illegible]

—	1975		Since Completion		—	June 12	
	High	Low	High	Low		June 12	June 12
Govt. Secs.	68.34 (20/3)	49.16 (5/1)	127.4 (91/18)	49.18 (31/7)	Daily— Oil Rgn'd— Industrial—	152.5	153.9
Fixed Int.	62.31 (21/4)	50.65 (8/1)	150.4 (91/9)	50.58 (31/7)	Speculative—	217.9	226.5
					Oil & Gas— Industrial—	42.1	42.9
Ind. Org.	56.53 (8/8)	16.01 (1/1)	543.6 (316/7)	42.4 (26/5)	Daily— Oil Rgn'd— Industrial—	141.1	149.9
					Speculative—	294.0	281.6
Gold Mines	44.83 (12/2)	20.01 (2/1)	442.3 (222/17)	43.5 (26/10)	Speculative—	60.1	65.9
					Totals—	130.3	138.9

FT—ACTUARIES INDICES

—	June 12	June 12	June 12	June 9	June 9	A year ago
Industrial Group	134.02	131.84	133.71	135.86	138.96	148.43
S&N Shares	146.65	144.32	145.76	148.08	151.69	166.14
Div. Yield pct.	5.99	6.07	6.01	5.92	5.77	5.60
P/E Ratio (mkt)	7.81	7.90	7.17	—	7.47	7.69
11 Shares	145.10	143.21	144.10	146.42	149.77	154.09
Consols yield pct.	14.68	14.90	14.89	14.67	14.66	14.64

BASE LENDING RATES

API International	94½	Industrial Bank of Scot.	91½
Alfred Irish Banks Ltd.	94½	Jacobs, Krell	94½
Anglo-Portuguese Bank 10 ..	94	Keyser Ullmann	102½
Henry Ansbacher	101½	Kinghurst Securities	12
Banco de Bilbao	92½	Lloyds Bank	94½
Banco de Jerez	104½	London & European	114½
Bank of Cyprus	110	London Mercantile	114½
Banque du Rhone S.A. 10 ..	94	Midland Bank	94½
Barclays Bank	94½	■ Samuel Montagu	94½
Barnett, Christie Ltd.	11	■ Morgan Grenfell	94½
Brennar Holdings Ltd. 104½		■ Morris Wigram Ltd.	94½
Brit. Bank of Mid. East	94½	National Westminster	94½
■ Brown Shipley	104½	Northern County	91½
Cayzer, Bowater Co. Ltd. 104½		Northern Guaranty Trust ..	102½
Cedar Holdings	11	Parsons Guaranty	11
■ Charterhouse Japhet	101½	P. S. Keeton & Co.	94½
C. E. Coates	101½	Roosminster Accept'cs	94½
Consolidated Credits	12	Royal Trust of Canada	104½
Continental Trade Bk.	94½	E. S. Schwab	112½
Co-operative Bank	94	Security Trust Co. Ltd.	11
Copleys Bank	111½	Shenley Trust	114½
Corinthian Securities	94½	Standard & Chartered	94½
Credit Lyonnais	94½	Sterling Credit	12
G. R. Dawes	101½	Stewart Salmon & Co.	94½
Duboff Brothers	114½	Thames Guaranty	94½
Duncan Lawrie	104½	Trade Development Bk.	94½
English Transcon.	114½	Twentysix Bk. Bk.	113½
First London Secs.	91½	Wibank of Kuwait	94½
■ Antony Gibbs	10	Wallace Brothers Bank	104½
Goode Durrant Trust	10	Whiteaway Laidlaw	10
Grays Guaranty	94½	Williams and Glyn's	94½
Grindlays Bank	10	Yorkshire Bank	91½
■ Guinness Mahon	104½	■ Members of the Accepting Houses ..	
■ Hambros Bank	94½	3-month deposits 91½, 1-month deposits ..	91½
Hawtin & Partners	13	6-month deposits on sums of £10,000 and ..	91½
■ Hill Samuel	110	under 6½, up to £25,000 94½ and over ..	94½
C. Hoare & Co.	94½	over £25,000 74½. 12 ..	91½
■ Julian S. Hodge	104½	■ Demand deposit 73½.	

[illegible]

OFFSHORE AND OVERSEAS FUNDS

[illegible]

HOTELS—Continued

May	Sale by A. McC...	25	7.4	5	...
Apr.	Oct. Sales (Rao) 10p...	20	7.3	7.3	...

[illegible]

"Recent Issues" and "Rights" Page 2

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FINANCIAL TIMES

Monday June 16 1975

Cruising means
SHANDLER

Sterling warning to U.K. tourists

BY ROY HODSON

BRITISH TRAVELLERS abroad were warned by a spokesman for the Association of British Travel Agents yesterday that "a few" hotels, restaurants, and shops might be reluctant to accept sterling travellers' cheques and pounds. Adding that such a situation could arise in times of difficulty for sterling, the ABTA official advised people to check with their banks.

The weekend saw heavy cashing of travellers' cheques into foreign currency at Heathrow—banks there called it a "mad dash".

Holiday £

	Selling price	Buying price
Austria	Sch.37.00	39.00
France	Fr.9.00	9.30
W. Germany	DMS.26	5.48
Greece	Dr.66.00	70.00
Italy	Lira.395	1,400
Spain	Ptas.124.0	129.5
U.S.	\$2.28	2.33

Same except for:

W. Germany	DMS.25	5.45
Greece	Dr.66.25	68.00
U.S.	\$2.275	2.325

However, Barclays Bank International was advising people not to convert all their cheques into foreign currencies before going abroad. An official said "the pound steadied on Friday as a result of the good trade figures, and inquiries through our Continental branches suggest there will be no difficulties in cashing sterling cheques at European banks."

When a party organised by Swan Tours arrived at London Airport on Saturday night from Majorca they claimed they had been forced to pay a "currency" surcharge of £4 each at the end of their holiday before they were allowed to travel to the airport for the night home.

The rush continued at Heathrow yesterday to change travellers' cheques for foreign currency. Banks reported that business had been brisk, even though the currency exchange notice boards at the banks at Heathrow had remained reasonably stable throughout the day.

Weather

U.K. TO-DAY

SHOWERS, bright or sunny intervals. Perhaps longer rain in E. at first. Cool in N. and E.

London, E. Midlands

Sunny intervals. scattered showers, some longer rain spells at first. Wind W. light. Max. 17C (63F).

E. Anglia, E. and N.E. England

Cloudy, rain spells at first, bright with showers later. Wind N.W. light. Max. 15C (59F).

S.E. Cent. S.W. N.W. and Cent. N. England, Midlands, Channel Is., Wales, Lakes.

I. of Man

Sunny intervals, scattered showers. Wind N. light or moderate. Max. 17C (63F).

Borders, Edinburgh and Dundee, S.W. and N.W. Scotland, Glasgow, Cent. Highlands, Argyll, N. Ireland

Sunny intervals, scattered showers. Wind N. light or moderate. Max. 14C (57F).

Aberdeen, Scotland

Bright intervals, showers. Wind N.E. light or moderate. Max. 12C (54F).

Orkney, Shetland

Bright intervals, showers. Wind N.E. moderate. Max. 10C (50F).

Outlook: Dry, sunny spells in most parts after some showers in S.E. Cloudy later, with drizzle in some W. areas. Becoming warmer.

Lighting-up: London 21.49, Manchester 22.10, Glasgow 22.34, Belfast 22.32.

BUSINESS CENTRES

Y-day Mid-day Y-day Mid-day

Alexandria 10 17 Luxembourg 10 17

Amsterdam 10 17 Madrid 10 17

Antwerp 10 17 Milan 10 17

Bahia 10 17 Monaco 10 17

Barcelona 10 17 Moscow 10 17

Belgium 10 17 Munich 10 17

Berlin 10 17 Newcastle 10 17

Birmingham 10 17 New York 10 17

Bombay 10 17 Paris 10 17

Buenos Aires 10 17 Rome 10 17

Calcutta 10 17 Saigon 10 17

Cairo 10 17 Singapore 10 17

Cardiff 10 17 Stockholm 10 17

Cebu 10 17 Strasbourg 10 17

Dublin 10 17 Sydney 10 17

Edinburgh 10 17 Tel Aviv 10 17

Frankfurt 10 17 Toronto 10 17

Geneva 10 17 Valencia 10 17

Glasgow 10 17 Vienna 10 17

Hong Kong 10 17 Warsaw 10 17

Hyderabad 10 17 Zurich 10 17

London 10 17

S-Sunny, C-Cloudy, F-Fair, R-Rain, T-Thunder, M-Mist, H-Haze.

Y-day Mid-day Y-day Mid-day

Algeria 10 17 Jersey 10 17

Algiers 10 17 Las Palmas 10 17

Barcelona 10 17 Luxembourg 10 17

Blackpool 10 17 Madrid 10 17

U.S. backs retaliation if oil price jumps

BY PAUL LEWIS, U.S. EDITOR

WASHINGTON, June 15.

THE U.S. Administration will propose that the Western industrial countries consider some form of retaliation against the OPEC cartel if it raises the price of oil by any significant amount later this year.

At the moment, Dr. Kissinger has not abandoned hope of preventing any big increase by diplomatic means—although it cannot be said that all his aides are equally optimistic. But should he fail, his present instinct is to suggest reprisals by the oil-consuming nations against the oil exporters.

Weapon
There is already quite a debate going on within the Administration over what the West could hope to do in the event of another oil price rise. And two rather tentative conclusions have emerged—neither of them very encouraging.

The first is that the only economic weapon the Western industrial countries have against OPEC lies in their exports to the oil-producing countries. They could try to restrict food exports, although this would primarily affect only Iran and Venezuela.

A more effective move might be to restrict or increase the price of other industrial exports towards the OPEC countries, perhaps through a special tax that would recoup the additional money paid for oil.



Dr. Kissinger... considering oil reprisals.

However, the second conclusion is that any programme of sanctions would have to be accepted by all Western countries if it was to be effective. At the moment, Dr. Kissinger doubts whether the Europeans would be prepared to embark on any kind of retaliation case with the oil-producing nations.

This might change if OPEC proposed an increase of \$2 or \$3 a barrel, or if the Middle East situation produced another embargo.

But as matters stand, Dr. Kissinger intends to suggest concerted political action of some kind against OPEC if it increases prices again this year, regardless of European feelings.

Tolerable

Whether the U.S. can stave off such a price rise by diplomatic means, remains a matter of dispute within the Administration. Dr. Kissinger appears to be pinning his hopes again on Saudi Arabia refusing to make the production cut-back necessary to sustain a higher price. But some officials fear a world economic upturn will strengthen OPEC's hand, while calculations suggest that Saudi Arabia could afford to reduce production well below its current level of about 5.8m. barrels a day, and perhaps go as low as 3m. to 4m. barrels daily.

There are also some signs of disagreement within the Administration over how much of a price increase would be considered tolerable in September. The White House spokesman suggested that a 7 to 8 per cent. rise might be reasonable to offset world inflation. But officially the U.S. remains committed only to accept the indexing of the oil price to, say, other world commodity prices in return for a substantial reduction of the present level of oil prices.

Concern over tanker glut grows

BY STEWART FLEMING

GROWING CONCERN in the oil industry about the glut of tankers of over 180,000 d.w.t. and the pressure which the growing surplus capacity in the market is putting on tanker owners, is shown by a report prepared by one of Britain's major oil companies.

The broad outlines of the financial crisis now enveloping the tanker market and threatening several owners and their bankers is well known in oil and shipping circles, but the decision by this British oil company to publicise details of an internal report on the subject reflects its belief that the full impact of the situation is inadequately understood.

Drastic

In particular, it appears that the oil company is anxious to underline the urgent need for a drastic programme to cancel the bulk of the VLCC tankers now on order in the world's shipyards.

The report estimates that on the current building programme and in the absence of such cancellations, by 1979-1980 the world's tanker fleet will have reached about 430m. dw tons and about half will be lying idle.

In these circumstances, there would have been an enormous waste of resources building ships which are not needed. In addition, many of the oil companies would find themselves making ex gratia payments to owners from whom they are chartering tankers (some are already doing this) and they would probably find themselves using a bigger proportion of their own tankers to transport oil.

Capital tied-up

From the oil companies' point of view, this shift in the pattern of tanker supply would represent an unpleasant change, tying up more of their scarce capital resources than they would wish in shipping.

The problem highlighted by the report—and the picture it presents is by no means the most pessimistic—is how to share the burden of the large-scale cancellation programme which is widely recognised to be needed.

The oil company suggests that at present none of the parties involved, the shipyards building the surplus tankers, the banks financing them, the owners who ordered them or the Governments involved, seem ready to set in train and bear the costs of the cancellation programme needed.

Violence tops Ulster agenda

By Our Belfast Correspondent

THE WEEK-END spate of shootings and bombings in Ulster, in which two people were killed and a dozen injured, is certain to be top of the agenda when the Northern Ireland Secretary, Mr. Merlyn Rees, meets police and Army chiefs for his weekly security review to-day.

They will be looking not only at security measures but at what is behind the latest incidents. It is always risky, as Mr. Rees said himself, to apportion responsibility in particular cases, which may be sectarian, between rival groups on the same side or within a single group.

But, there does seem clear evidence that much of this week-end's violence was tit-for-tat retaliation.

Attacks and counter-attacks in this category built up at the week-end.

This retaliation carries the risk of escalation of the fairly sustained campaign by Loyalist extremists—probably mainly the Ulster Volunteer Force—and its associated groups—since the IRA ceasefire began.

The starting point this week-end was probably the killing of three-year-old Michelle O'Connor when a bomb placed under her Catholic father's car exploded. This was followed by a suspiciously similar incident in Castlewellan, Co. Down, in which a Protestant man and his mother were injured.

EEC finance Ministers meet

Mr. Robert Sheldon, Minister of State at the Treasury, will represent the Chancellor at to-day's meeting of EEC Finance Ministers in Luxembourg—the first to be held since the British referendum result.

THE LEX COLUMN Cyclical patterns point upwards

So far the economic cycle and the associated patterns of stock market prices are sticking remarkably closely to the well-worn historical paths despite current aberrations like the massive public sector financial deficit and the 25 per cent. inflation rate. The new edition of Panmure Gordon's review of cyclical indicators concludes that economic activity could recover later this year or early in 1976.

It is fairly typical that at this stage of a cycle too much publicity is given to the key lagging indicators, unemployment and manufacturing investment. In fact, the review suggests that the sequence of changes being recorded by leading, coinciding and lagging indicators is in no way unusual. The evidence points towards a further recovery in equity prices, and to a continuing decline in U.K. internal interest rates—though the brokers put in the qualification that progress towards cheaper money rates will become increasingly dependent on effective action to curb wage inflation.

On the industrial front, meanwhile, manufacturing profit margins appear to have turned an important corner. Data-stream calculations indicate that the March quarter of 1975 produced higher margins than any three-month period since the end of 1973, excluding the distorting effect of stock appreciation which was responsible for around half reported profits last year. This partly reflects the amendments to the price code, but also the sharp slowdown in raw material costs and a slight flattening in the curve of labour costs.

Datastream make the point that just as reported profits were exaggerated in 1973 and 1974 by stock profits, so the improving trend in 1975 could be disguised by equally misleading stock losses. But they are confident that the recovery will continue on a substantial scale: after all, margins according to the March estimate had only crept back to 5.3 per cent. (related to gross output) and that compares with around 11 per cent. at the trough of the last cycle.

How does all this fit in with the crisis? From the Government's point of view, this is far from being the trickiest point expected to set the long alight. Even in the absence of such operations, the shares may continue to rise.

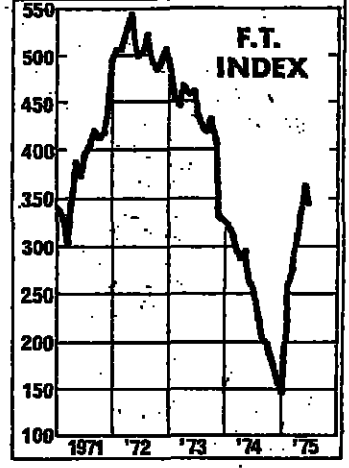
So the merit of gilts is strictly that of a deflationary hedge, to take account of the slight chance of tough wage tugs—back to profits control—and among the engine of the recovery.

Friday emphasised how a news, gilts may continue reason-

simple recession can work ably firm for a while. After the most notable feature of payments problem. 1975 so far has been the Government's ability to sell foreign pounds worth of gilts at its declining internal purchase rates, while the annual rate of inflation has climbed from 10 per cent. in May.

With the balance of payments improving faster than expected and the public sector deficit steadily decreasing, the Government's borrowing needs are less pressing. As a consequence, the financial markets will be more sanguine about the personal and corporate sectors will be correspondingly greater: the projected 10 per cent. drop in industrial output shows one way the being achieved. Friday's bank figures demonstrate that the private sector certainly not competing the Government for new

At this stage, the question of official action or inaction over inflation is more critical for gilts than for equities. The more probable outcome is that inflation will persist at historical



F.T. INDEX

Norcross

Norcross has made the pre-tax for the 16-month March, 1975, including a 12-month contribution to the Credit-Help. But for the year to March 1975, the company's pre-tax profit is to be ahead by 46 per cent. to £9.8m. pre-tax, despite a turnaround into losses in consumer products division.

The key to the performance is Norcross's ability to turn its metal window divisions back to life plus a year in packaging—but the experience has left the company highly geared. End-March borrowings are within the £23m. whereas in the last listed balance-sheet the debt ratio was about 30 per cent. Still, virtually all borrowings are funded.

The group's consumer profits have shot up from £1m. to £3.3m., including a £2m. from nothing to £2m. metal windows; but volume at a low ebb last year demand has stayed equally to date. Packaging (profits £3.3m.) is also going to have run hard this year: not recent earnings levels.

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Bonn urged to act on '1m. unemployed' danger

BY NICHOLAS COLCHESTER

BONN, June 15.

ONCE AGAIN the West German Government is under mounting pressure to apply further stimulus to the economy. The head of the Federal Labour Office, Herr Josef Stiglitz, predicts that unemployment will average more than 1m., or 4.4 per cent., for the year as a whole. There have been calls at the week-end from sections of Government and Opposition parties for new measures to fight joblessness.

Herr Stiglitz said on Friday that average unemployment would lie above 1m. this year, even if the total fell below that mark in the summer. He said the recent reduction in the number of unemployed was

basically a seasonal variation, and that the figures before him showed no signs of relief in the labour market in the foreseeable future.

In meetings at the week-end the Social Democrats of the Opposition Christian Democratic party and the working group for employee questions of the Social Democrats both spoke out for a programme of public investment to create jobs.

The SPD working group also called for a greater degree of Government influence on capital investment of companies, arguing that this investment was too important to leave to company managements alone.

Herr Willy Brandt, the former

Chancellor and chairman of the Social Democrats party, warned that the times of automatic growth in Germany were over. He cautioned his party against giving the impression that unemployment was something that could be got used to. Unemployment must remain the SPD's most serious challenge, he insisted.

So far Bonn has maintained that no further economic action is practicable despite the fact that its own unemployment estimate averages 900,000 for the year. Dr. Hans Friderichs, Economics Minister, has conceded that the building industry may need assistance to help it through next winter.

Job protection and investment are key U.K. issues this week

BY ANTHONY HARRIS

THE EMPHASIS of economic news and discussion this week is likely to shift towards investment and the growing level of unemployment after last week's preoccupation with the inflation figures.

The meeting to-morrow of the National Economic Development Council will offer a first opportunity for the Government, the CBI and the unions to seek common ground on policies to increase investment and the level of activity.

The CBI's Plan for National Recovery, circulated last week,

in which the industrialists have for the first time outlined their idea of a substantial role for the National Enterprise Board, may offer a good starting point, especially after the change of sign at the Department of Industry.

The industrial production figures for April, which will appear to-morrow, and the retail trade figures for May, to be published later to-day, will provide a more up-to-date reading of the trends now developing.

On Wednesday, the May wage figures will show whether the slight slackening of wage pres-

sure which has appeared recently is a new trend or a statistical aberration, and on Thursday the June unemployment figures will give an indicator of the economic situation.

At the end of the week the quarterly bulletin of the Bank of England is likely to redirect attention to the inflation problem; not for the first time, the Bank is taking a lead in calling for a new incomes policy. On the same day the latest sales and orders figures for engineering, though only for March, will provide further details of the business situation.

Iran, Saudi Arabia to probe 'bribery for contracts'

BY ROBERT GRAHAM, MIDDLE EAST CORRESPONDENT

TEHRAN, June 15.

IRAN AND Saudi Arabia are moving to investigate reports that foreign companies have been paying bribes to their officials to secure Government contracts.